



wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 01:54 PM BST

PDB ID : 3J8J
EMDB ID: : EMD-6180
Title : Tilted state of actin, T1
Authors : Galkin, V.E.; Orlova, A.; Vos, M.R.; Schroder, G.F.; Egelman, E.H.
Deposited on : 2014-11-07
Resolution : 12.00 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : trunk27241

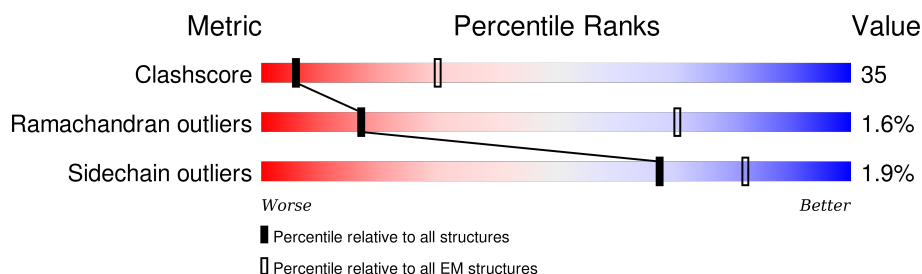
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 12.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	377	52% 44% ..
1	B	377	51% 45% ..
1	C	377	51% 45% ..
1	D	377	50% 47% ..
1	E	377	51% 45% ..
1	F	377	51% 46% ..
1	G	377	51% 45% ..
1	H	377	51% 46% ..
1	I	377	50% 46% ..

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Mol	Chain	Length	Quality of chain	
1	J	377	<div><div></div></div> <div>51%46%</div> <div>• •</div>	
1	K	377	<div><div></div></div> <div>52%45%</div> <div>• •</div>	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 31834 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

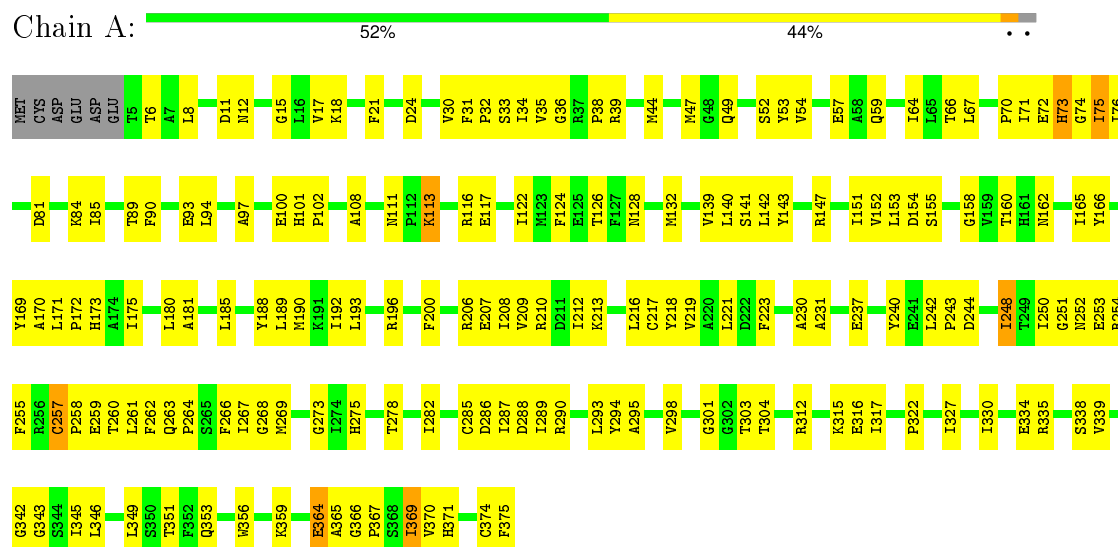
- Molecule 1 is a protein called Actin, alpha skeletal muscle.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	B	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	C	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	D	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	E	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	F	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	G	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	H	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	I	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	J	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		
1	K	371	Total	C	N	O	S	0	0
			2894	1833	487	553	21		

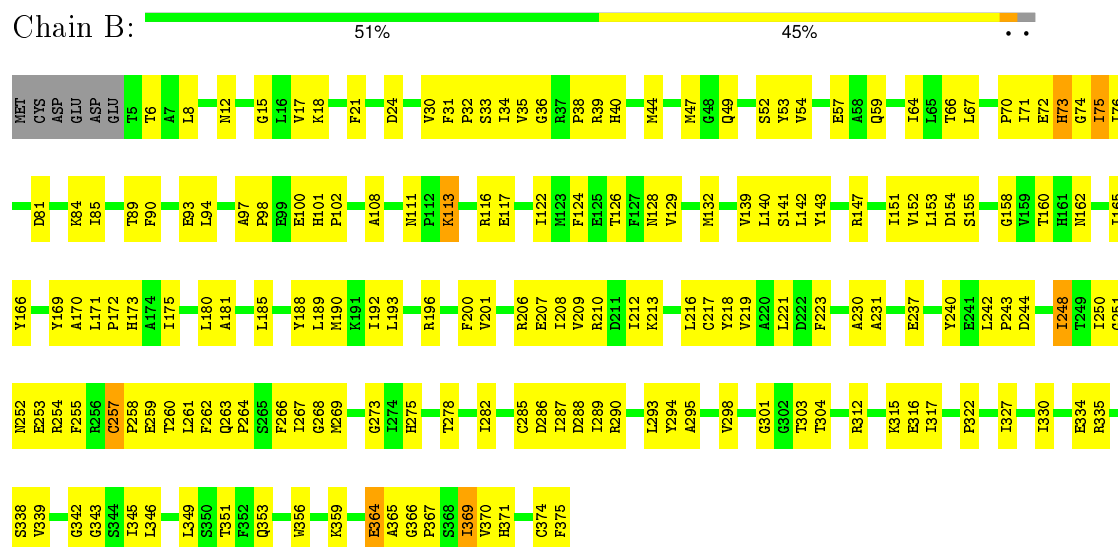
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

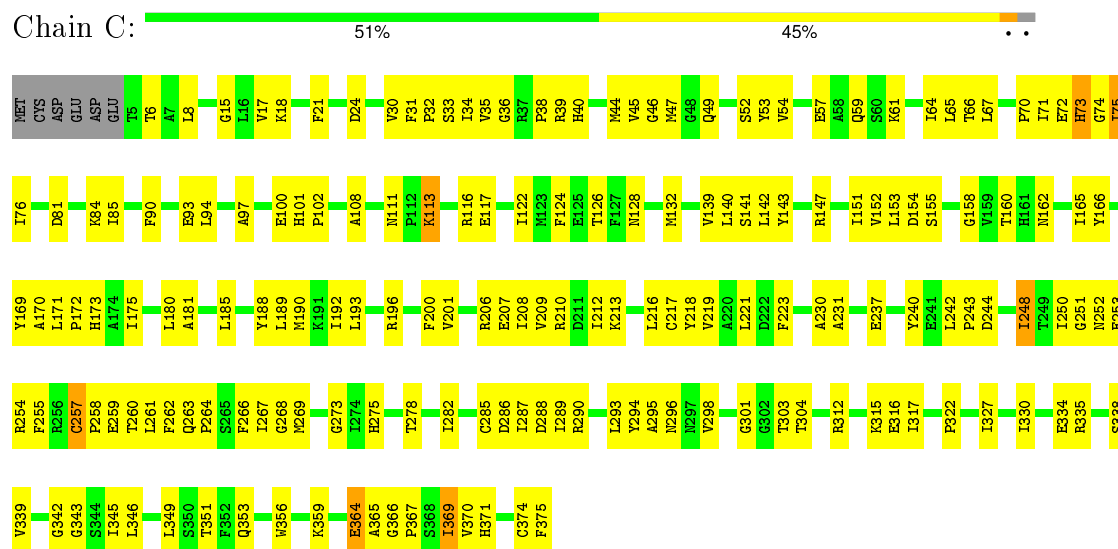
- Molecule 1: Actin, alpha skeletal muscle



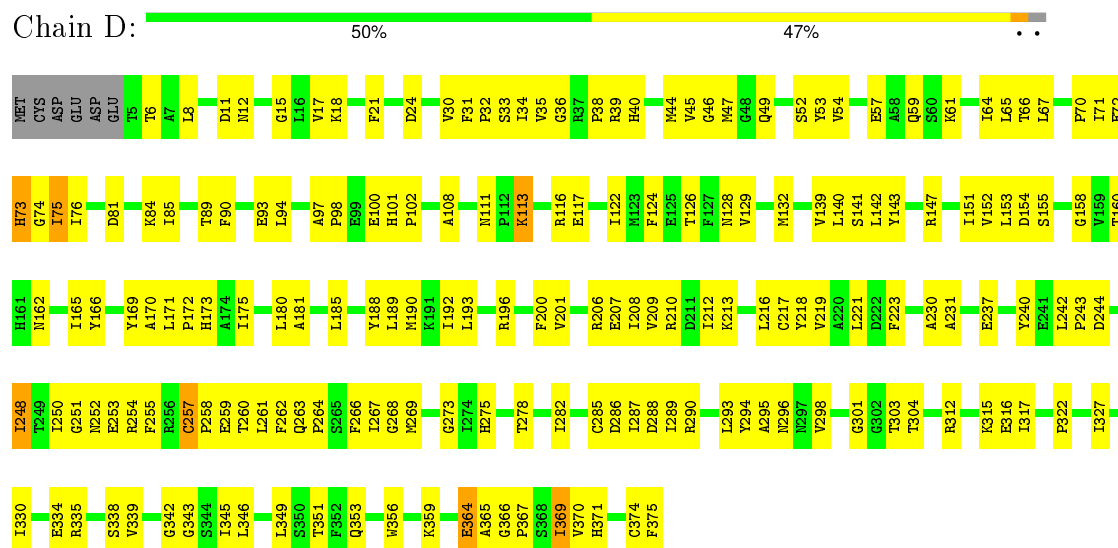
- Molecule 1: Actin, alpha skeletal muscle



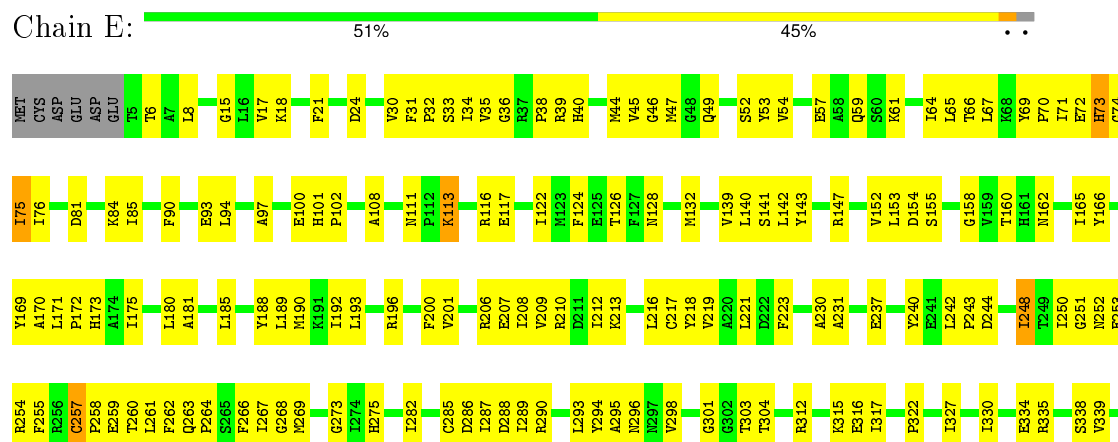
- Molecule 1: Actin, alpha skeletal muscle



- Molecule 1: Actin, alpha skeletal muscle



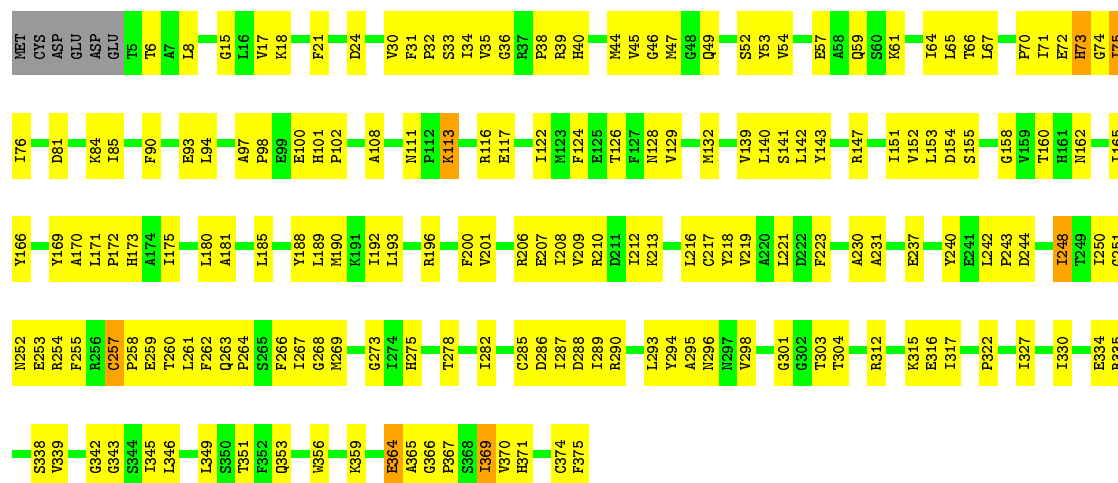
- Molecule 1: Actin, alpha skeletal muscle





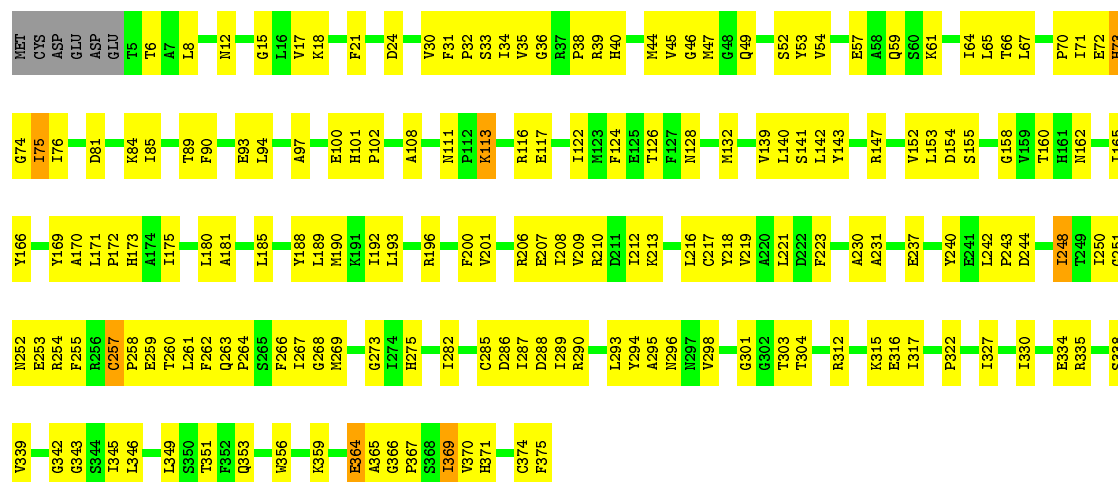
• Molecule 1: Actin, alpha skeletal muscle

Chain F: 51% 46%



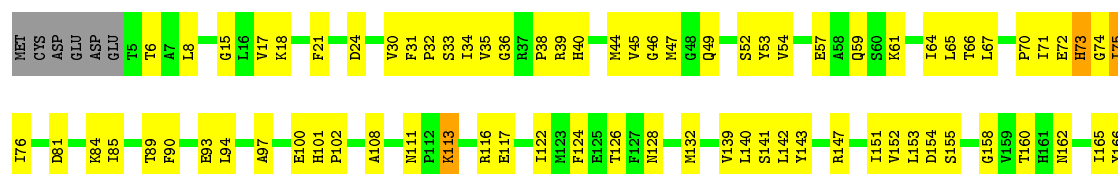
• Molecule 1: Actin, alpha skeletal muscle

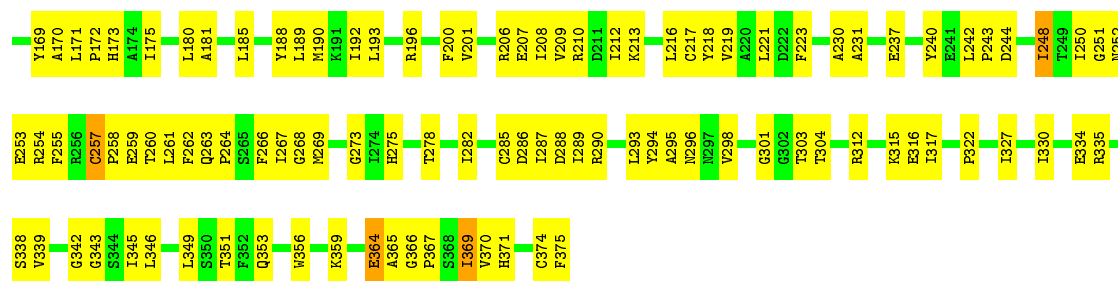
Chain G: 51% 45%



• Molecule 1: Actin, alpha skeletal muscle

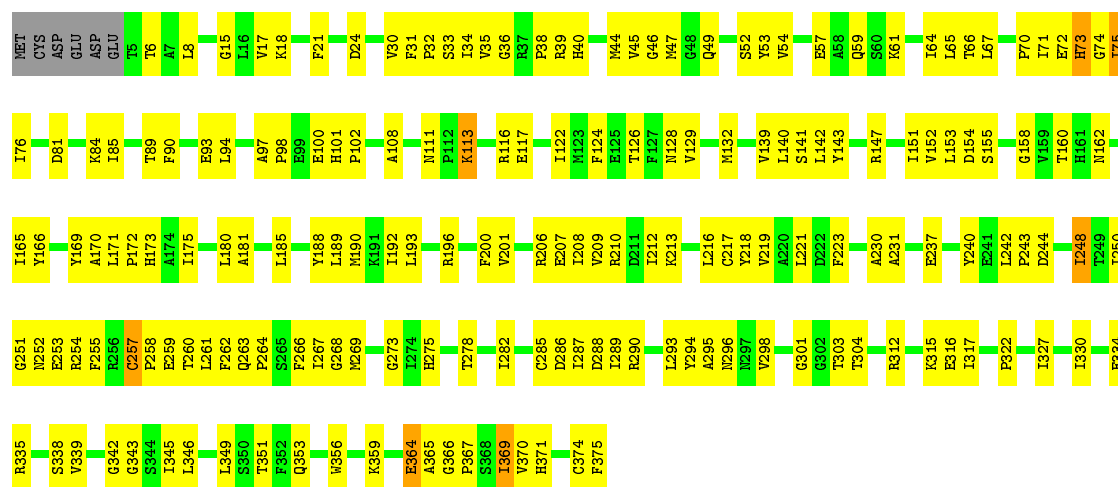
Chain H: 51% 46%





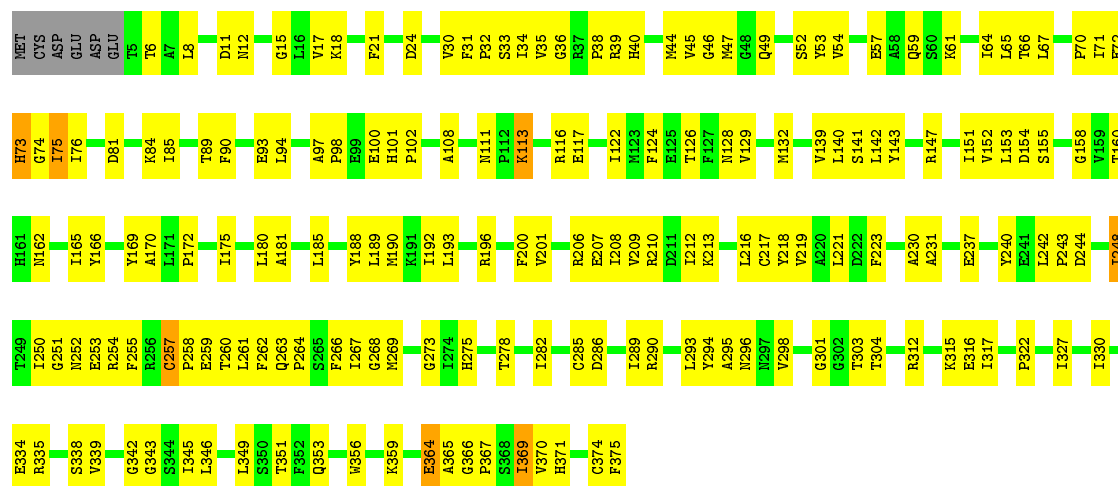
- Molecule 1: Actin, alpha skeletal muscle

Chain I: 50% 46%



- Molecule 1: Actin, alpha skeletal muscle

Chain J: 51% 46%



- Molecule 1: Actin, alpha skeletal muscle

Chain K: 52% 45%



MET	G74	I162	I250	R335
CYS	I75	I165	G251	S338
ASP	I76	Y166	M252	S339
GLU	D81	Y169	E253	
ASP	K84	A170	R254	G342
GLU	I85	L171	R255	G343
TS	A7	P172	C257	S344
T6	T89	I175	P258	I345
L8	F90		E259	L346
			T260	
M12	E93	L180	L261	L349
G15	L94	A181	F262	S350
L16	A97	L185	Q263	T351
V17	P98		P264	F352
K18	E99	Y188	S265	Q353
	E100	L189	F266	
F21	H101	M190	I267	W356
	P102	K191	G268	
D24	A108	L193	M269	K359
V30	M111	R196	G273	
F31	P112	F200	I274	E364
P32	K113	V201	H275	A365
S33	R116	R206	T278	G366
I34	E117	E207		P367
V35	I122	I208	I282	S368
G36	M123	V209		I369
R37	F124	R210	I289	V370
P38	E125	D211	R290	
H40	T126	I212	L293	G374
	F127	K213	Y294	F375
M44	M128		A295	
V45	V129	L216	M296	
G46		C217	M297	
M47	M132	Y218	V298	
G48		V219		
Q49	V139	A220	G301	
	Y53	L221	G302	
S52	V54	D222	T303	
	E57	F223	T304	
A58	Y143	A230	R312	
D59	R147	A231	K315	
S60	I151	E237	E316	
K61	V152	Y240	I317	
	L153	E241	P322	
T64	D154	L242	I327	
L65	S155	P243	I330	
T66	G158	D244		
L67	V159	I248	E334	
	T160	T249		
P70	H161			
I71				
E72				
H73				

4 Experimental information

Property	Value	Source
Reconstruction method	HELICAL	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	Not provided	Depositor
Resolution determination method	FSC and comparison with atomic model	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	Depositor
Image detector	KODAK SO-163 FILM	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
1	A	0.37	0/2956	0.54	0/4004
1	B	0.37	0/2956	0.54	0/4004
1	C	0.37	0/2956	0.54	0/4004
1	D	0.37	0/2956	0.55	0/4004
1	E	0.37	0/2956	0.54	0/4004
1	F	0.37	0/2956	0.54	0/4004
1	G	0.37	0/2956	0.54	0/4004
1	H	0.37	0/2956	0.55	0/4004
1	I	0.37	0/2956	0.54	0/4004
1	J	0.37	0/2956	0.54	0/4004
1	K	0.37	0/2956	0.55	0/4004
All	All	0.37	0/32516	0.54	0/44044

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2894	0	2866	207	0
1	B	2894	0	2866	211	0
1	C	2894	0	2866	265	0
1	D	2894	0	2866	266	0
1	E	2894	0	2866	263	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	2894	0	2866	264	0
1	G	2894	0	2866	267	0
1	H	2894	0	2866	266	0
1	I	2894	0	2866	266	0
1	J	2894	0	2866	215	0
1	K	2894	0	2866	210	0
All	All	31834	0	31526	2188	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 35.

All (2188) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:171:LEU:CD2	1:K:45:VAL:HG12	1.60	1.31
1:D:171:LEU:CD2	1:F:45:VAL:HG12	1.60	1.31
1:G:171:LEU:CD2	1:I:45:VAL:HG12	1.61	1.30
1:C:171:LEU:CD2	1:E:45:VAL:HG12	1.60	1.30
1:E:171:LEU:CD2	1:G:45:VAL:HG12	1.61	1.29
1:B:171:LEU:CD2	1:D:45:VAL:HG12	1.61	1.29
1:F:171:LEU:CD2	1:H:45:VAL:HG12	1.61	1.28
1:H:171:LEU:CD2	1:J:45:VAL:HG12	1.61	1.28
1:A:171:LEU:CD2	1:C:45:VAL:HG12	1.60	1.28
1:C:171:LEU:HD22	1:E:45:VAL:CG1	1.66	1.26
1:E:171:LEU:HD22	1:G:45:VAL:CG1	1.66	1.25
1:B:171:LEU:HD22	1:D:45:VAL:CG1	1.66	1.25
1:G:171:LEU:HD22	1:I:45:VAL:CG1	1.66	1.25
1:A:171:LEU:HD22	1:C:45:VAL:CG1	1.66	1.25
1:H:171:LEU:HD22	1:J:45:VAL:CG1	1.66	1.24
1:D:171:LEU:HD22	1:F:45:VAL:CG1	1.66	1.24
1:I:171:LEU:HD22	1:K:45:VAL:CG1	1.66	1.24
1:F:171:LEU:HD22	1:H:45:VAL:CG1	1.66	1.23
1:F:290:ARG:CD	1:H:64:ILE:HD11	1.71	1.21
1:D:290:ARG:CD	1:F:64:ILE:HD11	1.71	1.20
1:B:290:ARG:CD	1:D:64:ILE:HD11	1.71	1.20
1:I:290:ARG:CD	1:K:64:ILE:HD11	1.71	1.20
1:C:290:ARG:CD	1:E:64:ILE:HD11	1.71	1.19
1:H:290:ARG:CD	1:J:64:ILE:HD11	1.71	1.19
1:A:290:ARG:CD	1:C:64:ILE:HD11	1.71	1.19
1:E:290:ARG:CD	1:G:64:ILE:HD11	1.71	1.19
1:G:290:ARG:CD	1:I:64:ILE:HD11	1.71	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:286:ASP:OD1	1:G:47:MET:HA	1.45	1.16
1:I:286:ASP:OD1	1:K:47:MET:HA	1.45	1.16
1:G:286:ASP:OD1	1:I:47:MET:HA	1.45	1.16
1:B:290:ARG:HD2	1:D:64:ILE:CD1	1.77	1.15
1:E:290:ARG:HD2	1:G:64:ILE:CD1	1.77	1.15
1:B:286:ASP:OD1	1:D:47:MET:HA	1.45	1.15
1:D:290:ARG:HD2	1:F:64:ILE:CD1	1.77	1.15
1:C:290:ARG:HD2	1:E:64:ILE:CD1	1.77	1.14
1:G:290:ARG:HD2	1:I:64:ILE:CD1	1.77	1.14
1:I:290:ARG:HD2	1:K:64:ILE:CD1	1.77	1.14
1:F:290:ARG:HD2	1:H:64:ILE:CD1	1.77	1.13
1:A:286:ASP:OD1	1:C:47:MET:HA	1.45	1.13
1:H:74:GLY:O	1:H:75:ILE:HG13	1.49	1.13
1:D:286:ASP:OD1	1:F:47:MET:HA	1.45	1.13
1:F:74:GLY:O	1:F:75:ILE:HG13	1.49	1.13
1:J:74:GLY:O	1:J:75:ILE:HG13	1.49	1.13
1:E:74:GLY:O	1:E:75:ILE:HG13	1.49	1.13
1:G:74:GLY:O	1:G:75:ILE:HG13	1.49	1.13
1:A:290:ARG:HD2	1:C:64:ILE:CD1	1.77	1.13
1:C:74:GLY:O	1:C:75:ILE:HG13	1.49	1.13
1:I:74:GLY:O	1:I:75:ILE:HG13	1.49	1.13
1:A:74:GLY:O	1:A:75:ILE:HG13	1.49	1.12
1:D:74:GLY:O	1:D:75:ILE:HG13	1.49	1.12
1:B:74:GLY:O	1:B:75:ILE:HG13	1.49	1.12
1:K:74:GLY:O	1:K:75:ILE:HG13	1.49	1.12
1:C:286:ASP:OD1	1:E:47:MET:HA	1.45	1.12
1:H:290:ARG:HD2	1:J:64:ILE:CD1	1.77	1.12
1:H:286:ASP:OD1	1:J:47:MET:HA	1.45	1.11
1:F:286:ASP:OD1	1:H:47:MET:HA	1.45	1.10
1:G:290:ARG:NH1	1:I:64:ILE:HG12	1.69	1.07
1:A:173:HIS:HE1	1:C:45:VAL:HG11	1.20	1.07
1:H:290:ARG:NH1	1:J:64:ILE:HG12	1.69	1.07
1:D:290:ARG:NH1	1:F:64:ILE:HG12	1.69	1.06
1:H:173:HIS:HE1	1:J:45:VAL:HG11	1.20	1.06
1:I:290:ARG:NH1	1:K:64:ILE:HG12	1.69	1.06
1:C:290:ARG:NH1	1:E:64:ILE:HG12	1.69	1.06
1:E:290:ARG:NH1	1:G:64:ILE:HG12	1.69	1.06
1:C:173:HIS:HE1	1:E:45:VAL:HG11	1.20	1.06
1:F:173:HIS:HE1	1:H:45:VAL:HG11	1.20	1.06
1:F:290:ARG:NH1	1:H:64:ILE:HG12	1.69	1.06
1:B:290:ARG:NH1	1:D:64:ILE:HG12	1.69	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:ARG:NH1	1:C:64:ILE:HG12	1.69	1.06
1:D:173:HIS:HE1	1:F:45:VAL:HG11	1.20	1.04
1:E:173:HIS:HE1	1:G:45:VAL:HG11	1.20	1.04
1:I:173:HIS:HE1	1:K:45:VAL:HG11	1.20	1.03
1:G:171:LEU:HD22	1:I:45:VAL:HG12	1.03	1.03
1:I:171:LEU:HD22	1:K:45:VAL:HG12	1.03	1.03
1:C:171:LEU:HD22	1:E:45:VAL:HG12	1.03	1.03
1:A:171:LEU:HD22	1:C:45:VAL:HG12	1.03	1.02
1:G:173:HIS:HE1	1:I:45:VAL:HG11	1.20	1.02
1:B:173:HIS:HE1	1:D:45:VAL:HG11	1.20	1.02
1:B:171:LEU:HD22	1:D:45:VAL:HG12	1.03	1.01
1:B:290:ARG:CZ	1:D:64:ILE:HG12	1.90	1.01
1:H:290:ARG:CZ	1:J:64:ILE:HG12	1.91	1.01
1:A:290:ARG:CZ	1:C:64:ILE:HG12	1.90	1.01
1:E:290:ARG:CZ	1:G:64:ILE:HG12	1.91	1.01
1:D:171:LEU:HD22	1:F:45:VAL:HG12	1.03	1.01
1:H:171:LEU:HD22	1:J:45:VAL:HG12	1.03	1.01
1:F:290:ARG:CZ	1:H:64:ILE:HG12	1.90	1.01
1:G:290:ARG:CZ	1:I:64:ILE:HG12	1.90	1.01
1:D:290:ARG:CZ	1:F:64:ILE:HG12	1.90	1.01
1:I:290:ARG:CZ	1:K:64:ILE:HG12	1.90	1.00
1:C:290:ARG:CZ	1:E:64:ILE:HG12	1.90	1.00
1:E:171:LEU:HD22	1:G:45:VAL:HG12	1.03	1.00
1:G:73:HIS:CB	1:G:74:GLY:HA3	1.90	1.00
1:E:73:HIS:CB	1:E:74:GLY:HA3	1.90	1.00
1:A:173:HIS:CE1	1:C:45:VAL:HG11	1.96	1.00
1:I:73:HIS:CB	1:I:74:GLY:HA3	1.90	1.00
1:D:173:HIS:CE1	1:F:45:VAL:HG11	1.96	1.00
1:B:173:HIS:CE1	1:D:45:VAL:HG11	1.96	0.99
1:D:73:HIS:CB	1:D:74:GLY:HA3	1.90	0.99
1:C:173:HIS:CE1	1:E:45:VAL:HG11	1.96	0.99
1:K:73:HIS:CB	1:K:74:GLY:HA3	1.90	0.99
1:C:73:HIS:CB	1:C:74:GLY:HA3	1.90	0.99
1:I:173:HIS:CE1	1:K:45:VAL:HG11	1.96	0.99
1:F:171:LEU:HD22	1:H:45:VAL:HG12	1.03	0.99
1:F:173:HIS:CE1	1:H:45:VAL:HG11	1.96	0.99
1:G:173:HIS:CE1	1:I:45:VAL:HG11	1.96	0.99
1:E:173:HIS:CE1	1:G:45:VAL:HG11	1.96	0.99
1:H:173:HIS:CE1	1:J:45:VAL:HG11	1.96	0.98
1:J:73:HIS:CB	1:J:74:GLY:HA3	1.90	0.98
1:B:73:HIS:CB	1:B:74:GLY:HA3	1.90	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:HIS:CB	1:A:74:GLY:HA3	1.90	0.98
1:H:73:HIS:CB	1:H:74:GLY:HA3	1.90	0.97
1:F:73:HIS:CB	1:F:74:GLY:HA3	1.90	0.96
1:I:290:ARG:CD	1:K:64:ILE:CD1	2.43	0.91
1:E:290:ARG:CD	1:G:64:ILE:CD1	2.43	0.91
1:A:290:ARG:CD	1:C:64:ILE:CD1	2.43	0.91
1:F:290:ARG:HD2	1:H:64:ILE:HD11	0.90	0.90
1:E:290:ARG:HD2	1:G:64:ILE:HD11	0.90	0.90
1:D:290:ARG:HD2	1:F:64:ILE:HD11	0.90	0.90
1:C:290:ARG:HD2	1:E:64:ILE:HD11	0.90	0.90
1:G:73:HIS:CB	1:G:74:GLY:CA	2.50	0.90
1:I:73:HIS:CB	1:I:74:GLY:CA	2.50	0.90
1:A:290:ARG:HD2	1:C:64:ILE:HD11	0.90	0.89
1:G:290:ARG:HD2	1:I:64:ILE:HD11	0.90	0.89
1:B:290:ARG:HD2	1:D:64:ILE:HD11	0.90	0.89
1:I:290:ARG:HD2	1:K:64:ILE:HD11	0.90	0.89
1:A:73:HIS:CB	1:A:74:GLY:CA	2.50	0.89
1:J:73:HIS:CB	1:J:74:GLY:CA	2.50	0.89
1:E:73:HIS:CB	1:E:74:GLY:CA	2.50	0.89
1:H:73:HIS:CB	1:H:74:GLY:CA	2.50	0.89
1:K:73:HIS:CB	1:K:74:GLY:CA	2.50	0.88
1:D:73:HIS:CB	1:D:74:GLY:CA	2.50	0.88
1:F:73:HIS:CB	1:F:74:GLY:CA	2.50	0.88
1:B:290:ARG:CD	1:D:64:ILE:CD1	2.43	0.88
1:H:290:ARG:CD	1:J:64:ILE:CD1	2.43	0.88
1:D:290:ARG:CD	1:F:64:ILE:CD1	2.43	0.87
1:H:290:ARG:HD2	1:J:64:ILE:HD11	0.90	0.87
1:B:73:HIS:CB	1:B:74:GLY:CA	2.50	0.87
1:G:290:ARG:CD	1:I:64:ILE:CD1	2.43	0.86
1:C:290:ARG:CD	1:E:64:ILE:CD1	2.43	0.86
1:C:73:HIS:CB	1:C:74:GLY:CA	2.50	0.86
1:F:290:ARG:CD	1:H:64:ILE:CD1	2.43	0.86
1:G:287:ILE:HG12	1:I:65:LEU:HG	1.58	0.86
1:A:286:ASP:OD1	1:C:47:MET:CA	2.24	0.86
1:D:286:ASP:OD1	1:F:47:MET:CA	2.24	0.86
1:H:286:ASP:OD1	1:J:47:MET:CA	2.24	0.86
1:B:287:ILE:HG12	1:D:65:LEU:HG	1.58	0.86
1:A:74:GLY:O	1:A:75:ILE:CG1	2.24	0.86
1:E:287:ILE:HG12	1:G:65:LEU:HG	1.58	0.86
1:H:74:GLY:O	1:H:75:ILE:CG1	2.24	0.86
1:E:286:ASP:OD1	1:G:47:MET:CA	2.24	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:74:GLY:O	1:E:75:ILE:CG1	2.24	0.86
1:J:74:GLY:O	1:J:75:ILE:CG1	2.24	0.85
1:I:287:ILE:HG12	1:K:65:LEU:HG	1.58	0.85
1:D:74:GLY:O	1:D:75:ILE:CG1	2.24	0.85
1:G:74:GLY:O	1:G:75:ILE:CG1	2.24	0.85
1:I:286:ASP:OD1	1:K:47:MET:CA	2.24	0.85
1:C:74:GLY:O	1:C:75:ILE:CG1	2.24	0.85
1:K:74:GLY:O	1:K:75:ILE:CG1	2.24	0.85
1:C:286:ASP:OD1	1:E:47:MET:CA	2.24	0.85
1:F:286:ASP:OD1	1:H:47:MET:CA	2.24	0.85
1:D:287:ILE:HG12	1:F:65:LEU:HG	1.58	0.85
1:B:286:ASP:OD1	1:D:47:MET:CA	2.24	0.85
1:F:74:GLY:O	1:F:75:ILE:CG1	2.24	0.85
1:A:287:ILE:HG12	1:C:65:LEU:HG	1.58	0.85
1:I:74:GLY:O	1:I:75:ILE:CG1	2.24	0.85
1:C:287:ILE:HG12	1:E:65:LEU:HG	1.58	0.84
1:G:286:ASP:OD1	1:I:47:MET:CA	2.24	0.84
1:F:287:ILE:HG12	1:H:65:LEU:HG	1.58	0.84
1:B:74:GLY:O	1:B:75:ILE:CG1	2.24	0.84
1:H:287:ILE:HG12	1:J:65:LEU:HG	1.58	0.84
1:C:290:ARG:NE	1:E:64:ILE:CD1	2.43	0.82
1:B:290:ARG:NE	1:D:64:ILE:CD1	2.43	0.82
1:E:290:ARG:NE	1:G:64:ILE:CD1	2.43	0.82
1:F:290:ARG:NE	1:H:64:ILE:CD1	2.43	0.82
1:H:290:ARG:NE	1:J:64:ILE:CD1	2.43	0.81
1:I:290:ARG:NE	1:K:64:ILE:CD1	2.43	0.81
1:G:290:ARG:NE	1:I:64:ILE:CD1	2.43	0.81
1:A:290:ARG:NE	1:C:64:ILE:CD1	2.43	0.81
1:D:290:ARG:NE	1:F:64:ILE:CD1	2.43	0.81
1:H:287:ILE:HA	1:J:64:ILE:HD13	1.64	0.80
1:F:287:ILE:HA	1:H:64:ILE:HD13	1.64	0.80
1:B:287:ILE:HA	1:D:64:ILE:HD13	1.64	0.79
1:D:287:ILE:HA	1:F:64:ILE:HD13	1.65	0.79
1:I:287:ILE:HA	1:K:64:ILE:CD1	2.12	0.79
1:G:287:ILE:HA	1:I:64:ILE:CD1	2.12	0.79
1:D:287:ILE:HA	1:F:64:ILE:CD1	2.12	0.79
1:B:287:ILE:HA	1:D:64:ILE:CD1	2.12	0.79
1:I:287:ILE:HA	1:K:64:ILE:HD13	1.64	0.79
1:E:287:ILE:HA	1:G:64:ILE:CD1	2.12	0.79
1:F:287:ILE:HA	1:H:64:ILE:CD1	2.12	0.79
1:G:287:ILE:HA	1:I:64:ILE:HD13	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:287:ILE:HA	1:J:64:ILE:CD1	2.12	0.78
1:C:287:ILE:HA	1:E:64:ILE:CD1	2.12	0.78
1:C:287:ILE:HA	1:E:64:ILE:HD13	1.64	0.78
1:A:287:ILE:HA	1:C:64:ILE:CD1	2.12	0.78
1:A:287:ILE:HA	1:C:64:ILE:HD13	1.64	0.78
1:E:287:ILE:HA	1:G:64:ILE:HD13	1.65	0.78
1:C:35:VAL:HG21	1:C:81:ASP:HB3	1.66	0.78
1:E:35:VAL:HG21	1:E:81:ASP:HB3	1.66	0.78
1:I:35:VAL:HG21	1:I:81:ASP:HB3	1.66	0.78
1:K:35:VAL:HG21	1:K:81:ASP:HB3	1.66	0.77
1:E:290:ARG:NE	1:G:64:ILE:HD13	2.00	0.77
1:G:290:ARG:NE	1:I:64:ILE:HD13	2.00	0.77
1:G:35:VAL:HG21	1:G:81:ASP:HB3	1.66	0.77
1:D:35:VAL:HG21	1:D:81:ASP:HB3	1.66	0.77
1:A:35:VAL:HG21	1:A:81:ASP:HB3	1.66	0.77
1:E:290:ARG:CZ	1:G:64:ILE:CG1	2.63	0.77
1:B:35:VAL:HG21	1:B:81:ASP:HB3	1.66	0.77
1:J:35:VAL:HG21	1:J:81:ASP:HB3	1.66	0.77
1:I:290:ARG:NE	1:K:64:ILE:HD13	2.00	0.76
1:I:290:ARG:NH1	1:K:64:ILE:CG1	2.48	0.76
1:C:290:ARG:CZ	1:E:64:ILE:CG1	2.63	0.76
1:A:290:ARG:CZ	1:C:64:ILE:CG1	2.63	0.76
1:I:290:ARG:CZ	1:K:64:ILE:CG1	2.63	0.76
1:C:290:ARG:NE	1:E:64:ILE:HD13	2.00	0.76
1:A:290:ARG:NE	1:C:64:ILE:HD13	2.00	0.76
1:B:288:ASP:OD1	1:D:53:TYR:CZ	2.39	0.76
1:F:35:VAL:HG21	1:F:81:ASP:HB3	1.66	0.76
1:G:290:ARG:NH1	1:I:64:ILE:CG1	2.48	0.76
1:H:290:ARG:CZ	1:J:64:ILE:CG1	2.63	0.76
1:H:35:VAL:HG21	1:H:81:ASP:HB3	1.66	0.76
1:G:288:ASP:OD1	1:I:53:TYR:CZ	2.39	0.76
1:C:288:ASP:OD1	1:E:53:TYR:CZ	2.39	0.76
1:D:290:ARG:CZ	1:F:64:ILE:CG1	2.63	0.76
1:I:288:ASP:OD1	1:K:53:TYR:CZ	2.39	0.76
1:E:288:ASP:OD1	1:G:53:TYR:CZ	2.39	0.76
1:D:288:ASP:OD1	1:F:53:TYR:CZ	2.39	0.76
1:D:140:LEU:O	1:D:342:GLY:HA3	1.86	0.76
1:H:290:ARG:NE	1:J:64:ILE:HD13	2.00	0.76
1:A:290:ARG:NH1	1:C:64:ILE:CG1	2.48	0.76
1:E:290:ARG:NH1	1:G:64:ILE:CG1	2.48	0.76
1:C:290:ARG:NH1	1:E:64:ILE:CG1	2.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:74:GLY:C	1:H:75:ILE:HG13	2.07	0.76
1:F:74:GLY:C	1:F:75:ILE:HG13	2.07	0.76
1:K:74:GLY:C	1:K:75:ILE:HG13	2.07	0.76
1:A:288:ASP:OD1	1:C:53:TYR:CZ	2.39	0.76
1:F:290:ARG:CZ	1:H:64:ILE:CG1	2.63	0.75
1:G:290:ARG:CZ	1:I:64:ILE:CG1	2.63	0.75
1:F:290:ARG:NE	1:H:64:ILE:HD13	2.00	0.75
1:J:74:GLY:C	1:J:75:ILE:HG13	2.07	0.75
1:I:74:GLY:C	1:I:75:ILE:HG13	2.07	0.75
1:H:140:LEU:O	1:H:342:GLY:HA3	1.86	0.75
1:F:288:ASP:OD1	1:H:53:TYR:CZ	2.39	0.75
1:B:290:ARG:CZ	1:D:64:ILE:CG1	2.63	0.75
1:D:74:GLY:C	1:D:75:ILE:HG13	2.07	0.75
1:J:72:GLU:O	1:J:73:HIS:CB	2.34	0.75
1:F:140:LEU:O	1:F:342:GLY:HA3	1.86	0.75
1:G:74:GLY:C	1:G:75:ILE:HG13	2.07	0.75
1:B:74:GLY:C	1:B:75:ILE:HG13	2.06	0.75
1:D:290:ARG:NE	1:F:64:ILE:HD13	2.00	0.75
1:I:72:GLU:O	1:I:73:HIS:CB	2.34	0.75
1:A:72:GLU:O	1:A:73:HIS:CB	2.34	0.75
1:D:72:GLU:O	1:D:73:HIS:CB	2.34	0.75
1:K:140:LEU:O	1:K:342:GLY:HA3	1.86	0.75
1:B:290:ARG:NH1	1:D:64:ILE:CG1	2.48	0.75
1:E:72:GLU:O	1:E:73:HIS:CB	2.34	0.75
1:E:74:GLY:C	1:E:75:ILE:HG13	2.07	0.75
1:H:288:ASP:OD1	1:J:53:TYR:CZ	2.39	0.75
1:C:140:LEU:O	1:C:342:GLY:HA3	1.86	0.75
1:E:140:LEU:O	1:E:342:GLY:HA3	1.86	0.75
1:B:290:ARG:NE	1:D:64:ILE:HD13	2.00	0.75
1:B:140:LEU:O	1:B:342:GLY:HA3	1.86	0.74
1:J:140:LEU:O	1:J:342:GLY:HA3	1.86	0.74
1:C:74:GLY:C	1:C:75:ILE:HG13	2.07	0.74
1:K:72:GLU:O	1:K:73:HIS:CB	2.34	0.74
1:A:140:LEU:O	1:A:342:GLY:HA3	1.86	0.74
1:A:74:GLY:C	1:A:75:ILE:HG13	2.06	0.74
1:C:72:GLU:O	1:C:73:HIS:CB	2.34	0.74
1:G:140:LEU:O	1:G:342:GLY:HA3	1.86	0.74
1:G:171:LEU:HD22	1:I:45:VAL:HG11	1.69	0.74
1:D:290:ARG:NH1	1:F:64:ILE:CG1	2.48	0.74
1:H:72:GLU:O	1:H:73:HIS:CB	2.34	0.74
1:I:140:LEU:O	1:I:342:GLY:HA3	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:72:GLU:O	1:F:73:HIS:CB	2.34	0.73
1:G:72:GLU:O	1:G:73:HIS:CB	2.34	0.73
1:I:287:ILE:HG21	1:K:65:LEU:HD11	1.69	0.73
1:F:290:ARG:NH1	1:H:64:ILE:CG1	2.48	0.73
1:I:171:LEU:HD22	1:K:45:VAL:HG11	1.69	0.73
1:G:287:ILE:HG21	1:I:65:LEU:HD11	1.69	0.73
1:E:287:ILE:HG21	1:G:65:LEU:HD11	1.69	0.73
1:B:72:GLU:O	1:B:73:HIS:CB	2.34	0.73
1:D:287:ILE:HG21	1:F:65:LEU:HD11	1.69	0.73
1:B:287:ILE:HG21	1:D:65:LEU:HD11	1.69	0.73
1:C:287:ILE:HG21	1:E:65:LEU:HD11	1.69	0.72
1:H:290:ARG:NH1	1:J:64:ILE:CG1	2.48	0.72
1:A:287:ILE:HG21	1:C:65:LEU:HD11	1.69	0.72
1:B:171:LEU:HD22	1:D:45:VAL:HG11	1.69	0.72
1:F:287:ILE:HG21	1:H:65:LEU:HD11	1.69	0.72
1:B:212:ILE:HD11	1:B:248:ILE:HG13	1.72	0.72
1:D:212:ILE:HD11	1:D:248:ILE:HG13	1.72	0.72
1:C:142:LEU:HG	1:C:147:ARG:O	1.90	0.72
1:E:212:ILE:HD11	1:E:248:ILE:HG13	1.72	0.72
1:G:212:ILE:HD11	1:G:248:ILE:HG13	1.72	0.72
1:C:212:ILE:HD11	1:C:248:ILE:HG13	1.72	0.72
1:H:142:LEU:HG	1:H:147:ARG:O	1.90	0.72
1:H:287:ILE:HG21	1:J:65:LEU:HD11	1.69	0.72
1:I:212:ILE:HD11	1:I:248:ILE:HG13	1.72	0.72
1:I:142:LEU:HG	1:I:147:ARG:O	1.90	0.72
1:E:142:LEU:HG	1:E:147:ARG:O	1.90	0.72
1:C:213:LYS:HA	1:C:217:CYS:SG	2.30	0.72
1:B:142:LEU:HG	1:B:147:ARG:O	1.90	0.72
1:B:213:LYS:HA	1:B:217:CYS:SG	2.30	0.71
1:D:142:LEU:HG	1:D:147:ARG:O	1.90	0.71
1:K:212:ILE:HD11	1:K:248:ILE:HG13	1.72	0.71
1:A:142:LEU:HG	1:A:147:ARG:O	1.90	0.71
1:G:290:ARG:CZ	1:I:64:ILE:CD1	2.69	0.71
1:E:213:LYS:HA	1:E:217:CYS:SG	2.30	0.71
1:H:290:ARG:CZ	1:J:64:ILE:CD1	2.69	0.71
1:J:142:LEU:HG	1:J:147:ARG:O	1.90	0.71
1:F:212:ILE:HD11	1:F:248:ILE:HG13	1.72	0.71
1:A:171:LEU:CD2	1:C:45:VAL:CG1	2.46	0.71
1:I:290:ARG:CZ	1:K:64:ILE:CD1	2.69	0.71
1:A:290:ARG:CZ	1:C:64:ILE:CD1	2.68	0.71
1:A:212:ILE:HD11	1:A:248:ILE:HG13	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:142:LEU:HG	1:K:147:ARG:O	1.90	0.71
1:D:171:LEU:HD22	1:F:45:VAL:HG11	1.69	0.71
1:D:290:ARG:CZ	1:F:64:ILE:CD1	2.68	0.71
1:D:213:LYS:HA	1:D:217:CYS:SG	2.30	0.71
1:C:290:ARG:CZ	1:E:64:ILE:CD1	2.68	0.71
1:K:213:LYS:HA	1:K:217:CYS:SG	2.30	0.71
1:F:142:LEU:HG	1:F:147:ARG:O	1.90	0.71
1:G:213:LYS:HA	1:G:217:CYS:SG	2.30	0.71
1:D:155:SER:O	1:D:301:GLY:HA3	1.91	0.71
1:A:213:LYS:HA	1:A:217:CYS:SG	2.30	0.71
1:F:213:LYS:HA	1:F:217:CYS:SG	2.30	0.71
1:K:155:SER:O	1:K:301:GLY:HA3	1.91	0.71
1:D:171:LEU:CD2	1:F:45:VAL:CG1	2.46	0.70
1:G:142:LEU:HG	1:G:147:ARG:O	1.90	0.70
1:H:155:SER:O	1:H:301:GLY:HA3	1.91	0.70
1:F:290:ARG:CZ	1:H:64:ILE:CD1	2.69	0.70
1:E:290:ARG:CZ	1:G:64:ILE:CD1	2.68	0.70
1:I:213:LYS:HA	1:I:217:CYS:SG	2.30	0.70
1:J:213:LYS:HA	1:J:217:CYS:SG	2.30	0.70
1:B:290:ARG:CZ	1:D:64:ILE:CD1	2.69	0.70
1:B:155:SER:O	1:B:301:GLY:HA3	1.91	0.70
1:J:212:ILE:HD11	1:J:248:ILE:HG13	1.72	0.70
1:I:155:SER:O	1:I:301:GLY:HA3	1.91	0.70
1:H:212:ILE:HD11	1:H:248:ILE:HG13	1.72	0.70
1:G:287:ILE:HG21	1:I:65:LEU:CG	2.22	0.70
1:H:213:LYS:HA	1:H:217:CYS:SG	2.31	0.70
1:F:287:ILE:HG21	1:H:65:LEU:CG	2.22	0.70
1:A:155:SER:O	1:A:301:GLY:HA3	1.91	0.70
1:F:171:LEU:HD22	1:H:45:VAL:HG11	1.69	0.69
1:G:155:SER:O	1:G:301:GLY:HA3	1.91	0.69
1:F:155:SER:O	1:F:301:GLY:HA3	1.91	0.69
1:D:287:ILE:HG21	1:F:65:LEU:CG	2.22	0.69
1:I:287:ILE:HG21	1:K:65:LEU:CG	2.22	0.69
1:E:287:ILE:HG21	1:G:65:LEU:CG	2.22	0.69
1:I:33:SER:OG	1:I:85:ILE:HD13	1.92	0.69
1:J:155:SER:O	1:J:301:GLY:HA3	1.91	0.69
1:E:155:SER:O	1:E:301:GLY:HA3	1.91	0.69
1:A:33:SER:OG	1:A:85:ILE:HD13	1.92	0.69
1:G:173:HIS:HE1	1:I:45:VAL:CG1	2.03	0.69
1:A:171:LEU:HD22	1:C:45:VAL:HG11	1.69	0.69
1:I:286:ASP:HB2	1:K:46:GLY:C	2.13	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:286:ASP:HB2	1:C:46:GLY:C	2.13	0.69
1:C:155:SER:O	1:C:301:GLY:HA3	1.91	0.69
1:C:33:SER:OG	1:C:85:ILE:HD13	1.92	0.69
1:K:33:SER:OG	1:K:85:ILE:HD13	1.92	0.69
1:A:173:HIS:HE1	1:C:45:VAL:CG1	2.03	0.69
1:H:287:ILE:HG21	1:J:65:LEU:CG	2.22	0.69
1:C:173:HIS:HE1	1:E:45:VAL:CG1	2.03	0.69
1:G:33:SER:OG	1:G:85:ILE:HD13	1.92	0.69
1:G:286:ASP:HB2	1:I:46:GLY:C	2.13	0.69
1:J:33:SER:OG	1:J:85:ILE:HD13	1.92	0.69
1:E:33:SER:OG	1:E:85:ILE:HD13	1.92	0.69
1:B:286:ASP:HB2	1:D:46:GLY:C	2.13	0.69
1:C:287:ILE:HG21	1:E:65:LEU:CG	2.22	0.68
1:B:33:SER:OG	1:B:85:ILE:HD13	1.92	0.68
1:C:171:LEU:HD22	1:E:45:VAL:HG11	1.69	0.68
1:E:286:ASP:HB2	1:G:46:GLY:C	2.13	0.68
1:D:33:SER:OG	1:D:85:ILE:HD13	1.92	0.68
1:F:33:SER:OG	1:F:85:ILE:HD13	1.92	0.68
1:A:287:ILE:HG21	1:C:65:LEU:CG	2.22	0.68
1:C:286:ASP:HB2	1:E:46:GLY:C	2.13	0.68
1:H:171:LEU:HD22	1:J:45:VAL:HG11	1.70	0.68
1:B:287:ILE:HG21	1:D:65:LEU:CG	2.22	0.68
1:D:286:ASP:HB2	1:F:46:GLY:C	2.13	0.68
1:H:33:SER:OG	1:H:85:ILE:HD13	1.92	0.68
1:G:116:ARG:HD3	1:G:370:VAL:HG11	1.75	0.68
1:H:286:ASP:HB2	1:J:46:GLY:C	2.13	0.68
1:F:286:ASP:HB2	1:H:46:GLY:C	2.13	0.68
1:K:32:PRO:HD2	1:K:59:GLN:OE1	1.94	0.68
1:K:116:ARG:HD3	1:K:370:VAL:HG11	1.76	0.68
1:C:171:LEU:CD2	1:E:45:VAL:CG1	2.46	0.67
1:J:32:PRO:HD2	1:J:59:GLN:OE1	1.94	0.67
1:E:32:PRO:HD2	1:E:59:GLN:OE1	1.94	0.67
1:A:32:PRO:HD2	1:A:59:GLN:OE1	1.94	0.67
1:A:317:ILE:HG22	1:A:327:ILE:HG13	1.77	0.67
1:F:116:ARG:HD3	1:F:370:VAL:HG11	1.76	0.67
1:H:116:ARG:HD3	1:H:370:VAL:HG11	1.76	0.67
1:B:32:PRO:HD2	1:B:59:GLN:OE1	1.94	0.67
1:J:317:ILE:HG22	1:J:327:ILE:HG13	1.77	0.67
1:D:32:PRO:HD2	1:D:59:GLN:OE1	1.94	0.67
1:F:287:ILE:HG21	1:H:65:LEU:HD21	1.77	0.67
1:C:287:ILE:HG21	1:E:65:LEU:HD21	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:287:ILE:HG21	1:G:65:LEU:HD21	1.77	0.67
1:F:317:ILE:HG22	1:F:327:ILE:HG13	1.77	0.67
1:C:317:ILE:HG22	1:C:327:ILE:HG13	1.77	0.67
1:H:32:PRO:HD2	1:H:59:GLN:OE1	1.94	0.67
1:G:317:ILE:HG22	1:G:327:ILE:HG13	1.77	0.67
1:I:32:PRO:HD2	1:I:59:GLN:OE1	1.94	0.67
1:E:171:LEU:HD22	1:G:45:VAL:HG11	1.70	0.67
1:C:116:ARG:HD3	1:C:370:VAL:HG11	1.76	0.67
1:I:116:ARG:HD3	1:I:370:VAL:HG11	1.76	0.67
1:H:173:HIS:HE1	1:J:45:VAL:CG1	2.03	0.67
1:D:287:ILE:HG21	1:F:65:LEU:HD21	1.77	0.67
1:H:287:ILE:HG21	1:J:65:LEU:HD21	1.77	0.67
1:I:286:ASP:OD1	1:K:46:GLY:O	2.13	0.67
1:E:317:ILE:HG22	1:E:327:ILE:HG13	1.77	0.67
1:A:287:ILE:HG21	1:C:65:LEU:HD21	1.77	0.67
1:G:286:ASP:OD1	1:I:46:GLY:O	2.13	0.67
1:D:116:ARG:HD3	1:D:370:VAL:HG11	1.76	0.67
1:H:317:ILE:HG22	1:H:327:ILE:HG13	1.77	0.67
1:G:32:PRO:HD2	1:G:59:GLN:OE1	1.94	0.67
1:I:173:HIS:HE1	1:K:45:VAL:CG1	2.03	0.66
1:B:173:HIS:HE1	1:D:45:VAL:CG1	2.03	0.66
1:D:317:ILE:HG22	1:D:327:ILE:HG13	1.77	0.66
1:G:287:ILE:HG21	1:I:65:LEU:HD21	1.77	0.66
1:E:116:ARG:HD3	1:E:370:VAL:HG11	1.76	0.66
1:I:317:ILE:HG22	1:I:327:ILE:HG13	1.77	0.66
1:E:173:HIS:HE1	1:G:45:VAL:CG1	2.03	0.66
1:B:287:ILE:HG21	1:D:65:LEU:HD21	1.77	0.66
1:J:116:ARG:HD3	1:J:370:VAL:HG11	1.76	0.66
1:F:32:PRO:HD2	1:F:59:GLN:OE1	1.94	0.66
1:C:32:PRO:HD2	1:C:59:GLN:OE1	1.94	0.66
1:B:116:ARG:HD3	1:B:370:VAL:HG11	1.75	0.66
1:D:173:HIS:HE1	1:F:45:VAL:CG1	2.03	0.66
1:K:317:ILE:HG22	1:K:327:ILE:HG13	1.77	0.66
1:I:242:LEU:HD12	1:I:243:PRO:HD2	1.78	0.66
1:I:287:ILE:HG21	1:K:65:LEU:HD21	1.77	0.66
1:E:286:ASP:OD1	1:G:46:GLY:O	2.13	0.66
1:F:286:ASP:OD1	1:H:46:GLY:O	2.13	0.66
1:F:242:LEU:HD12	1:F:243:PRO:HD2	1.78	0.66
1:B:317:ILE:HG22	1:B:327:ILE:HG13	1.77	0.66
1:H:286:ASP:OD1	1:J:46:GLY:O	2.13	0.66
1:G:242:LEU:HD12	1:G:243:PRO:HD2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:242:LEU:HD12	1:H:243:PRO:HD2	1.78	0.66
1:A:116:ARG:HD3	1:A:370:VAL:HG11	1.76	0.66
1:K:242:LEU:HD12	1:K:243:PRO:HD2	1.78	0.66
1:B:286:ASP:OD1	1:D:46:GLY:O	2.13	0.66
1:D:286:ASP:OD1	1:F:46:GLY:O	2.13	0.66
1:D:155:SER:OG	1:D:303:THR:HB	1.97	0.65
1:J:242:LEU:HD12	1:J:243:PRO:HD2	1.78	0.65
1:D:39:ARG:HD2	1:D:66:THR:OG1	1.97	0.65
1:C:155:SER:OG	1:C:303:THR:HB	1.97	0.65
1:I:155:SER:OG	1:I:303:THR:HB	1.97	0.65
1:G:155:SER:OG	1:G:303:THR:HB	1.97	0.65
1:B:242:LEU:HD12	1:B:243:PRO:HD2	1.78	0.65
1:D:242:LEU:HD12	1:D:243:PRO:HD2	1.78	0.65
1:D:74:GLY:H	1:D:108:ALA:CB	2.10	0.65
1:K:74:GLY:H	1:K:108:ALA:CB	2.10	0.65
1:E:242:LEU:HD12	1:E:243:PRO:HD2	1.78	0.65
1:F:39:ARG:HD2	1:F:66:THR:OG1	1.97	0.65
1:K:39:ARG:HD2	1:K:66:THR:OG1	1.97	0.65
1:A:287:ILE:HB	1:C:64:ILE:CG2	2.27	0.65
1:F:74:GLY:H	1:F:108:ALA:CB	2.10	0.65
1:B:74:GLY:H	1:B:108:ALA:CB	2.10	0.65
1:C:286:ASP:OD1	1:E:46:GLY:O	2.13	0.65
1:B:39:ARG:HD2	1:B:66:THR:OG1	1.97	0.65
1:G:39:ARG:HD2	1:G:66:THR:OG1	1.97	0.65
1:I:39:ARG:HD2	1:I:66:THR:OG1	1.97	0.65
1:C:335:ARG:HA	1:C:338:SER:OG	1.97	0.65
1:C:287:ILE:HB	1:E:64:ILE:CG2	2.27	0.65
1:A:155:SER:OG	1:A:303:THR:HB	1.97	0.65
1:F:335:ARG:HA	1:F:338:SER:OG	1.97	0.65
1:D:335:ARG:HA	1:D:338:SER:OG	1.97	0.65
1:E:335:ARG:HA	1:E:338:SER:OG	1.97	0.65
1:H:155:SER:OG	1:H:303:THR:HB	1.96	0.65
1:A:335:ARG:HA	1:A:338:SER:OG	1.97	0.65
1:G:192:ILE:HD12	1:G:253:GLU:HA	1.79	0.65
1:E:39:ARG:HD2	1:E:66:THR:OG1	1.97	0.65
1:H:287:ILE:HB	1:J:64:ILE:CG2	2.27	0.65
1:J:39:ARG:HD2	1:J:66:THR:OG1	1.97	0.65
1:E:74:GLY:H	1:E:108:ALA:CB	2.10	0.65
1:C:74:GLY:H	1:C:108:ALA:CB	2.10	0.65
1:F:192:ILE:HD12	1:F:253:GLU:HA	1.79	0.65
1:B:192:ILE:HD12	1:B:253:GLU:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:335:ARG:HA	1:J:338:SER:OG	1.97	0.65
1:I:74:GLY:H	1:I:108:ALA:CB	2.10	0.65
1:D:192:ILE:HD12	1:D:253:GLU:HA	1.79	0.65
1:A:242:LEU:HD12	1:A:243:PRO:HD2	1.78	0.65
1:K:192:ILE:HD12	1:K:253:GLU:HA	1.79	0.65
1:I:192:ILE:HD12	1:I:253:GLU:HA	1.79	0.65
1:A:39:ARG:HD2	1:A:66:THR:OG1	1.97	0.65
1:F:287:ILE:HB	1:H:64:ILE:CG2	2.27	0.64
1:E:287:ILE:HB	1:G:64:ILE:CG2	2.27	0.64
1:A:286:ASP:OD1	1:C:46:GLY:O	2.13	0.64
1:G:35:VAL:HG21	1:G:81:ASP:CB	2.27	0.64
1:B:155:SER:OG	1:B:303:THR:HB	1.96	0.64
1:J:155:SER:OG	1:J:303:THR:HB	1.97	0.64
1:G:335:ARG:HA	1:G:338:SER:OG	1.97	0.64
1:F:173:HIS:HE1	1:H:45:VAL:CG1	2.03	0.64
1:B:287:ILE:HB	1:D:64:ILE:CG2	2.27	0.64
1:G:287:ILE:HB	1:I:64:ILE:CG2	2.27	0.64
1:I:35:VAL:HG21	1:I:81:ASP:CB	2.27	0.64
1:H:335:ARG:HA	1:H:338:SER:OG	1.97	0.64
1:H:39:ARG:HD2	1:H:66:THR:OG1	1.97	0.64
1:D:287:ILE:HB	1:F:64:ILE:CG2	2.27	0.64
1:H:74:GLY:H	1:H:108:ALA:CB	2.10	0.64
1:J:74:GLY:H	1:J:108:ALA:CB	2.10	0.64
1:B:335:ARG:HA	1:B:338:SER:OG	1.97	0.64
1:H:192:ILE:HD12	1:H:253:GLU:HA	1.79	0.64
1:C:35:VAL:HG21	1:C:81:ASP:CB	2.27	0.64
1:F:155:SER:OG	1:F:303:THR:HB	1.96	0.64
1:I:287:ILE:HB	1:K:64:ILE:CG2	2.27	0.64
1:K:155:SER:OG	1:K:303:THR:HB	1.96	0.64
1:E:155:SER:OG	1:E:303:THR:HB	1.97	0.64
1:E:192:ILE:HD12	1:E:253:GLU:HA	1.79	0.64
1:D:35:VAL:HG21	1:D:81:ASP:CB	2.27	0.64
1:E:171:LEU:CD2	1:G:45:VAL:CG1	2.46	0.64
1:C:39:ARG:HD2	1:C:66:THR:OG1	1.97	0.64
1:I:335:ARG:HA	1:I:338:SER:OG	1.97	0.64
1:C:242:LEU:HD12	1:C:243:PRO:HD2	1.78	0.64
1:F:287:ILE:HG13	1:H:61:LYS:HB3	1.80	0.64
1:B:287:ILE:HG13	1:D:61:LYS:HB3	1.80	0.64
1:A:74:GLY:H	1:A:108:ALA:CB	2.10	0.64
1:B:35:VAL:HG21	1:B:81:ASP:CB	2.27	0.64
1:J:192:ILE:HD12	1:J:253:GLU:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:ILE:HD12	1:A:253:GLU:HA	1.79	0.64
1:E:287:ILE:HG21	1:G:65:LEU:CD1	2.28	0.63
1:G:287:ILE:HG21	1:I:65:LEU:CD1	2.28	0.63
1:G:74:GLY:H	1:G:108:ALA:CB	2.10	0.63
1:A:35:VAL:HG21	1:A:81:ASP:CB	2.27	0.63
1:C:192:ILE:HD12	1:C:253:GLU:HA	1.79	0.63
1:I:287:ILE:HG21	1:K:65:LEU:CD1	2.28	0.63
1:K:35:VAL:HG21	1:K:81:ASP:CB	2.27	0.63
1:H:35:VAL:HG21	1:H:81:ASP:CB	2.27	0.63
1:C:287:ILE:HG21	1:E:65:LEU:CD1	2.28	0.63
1:K:335:ARG:HA	1:K:338:SER:OG	1.97	0.63
1:E:35:VAL:HG21	1:E:81:ASP:CB	2.27	0.63
1:D:287:ILE:HG21	1:F:65:LEU:CD1	2.28	0.63
1:H:287:ILE:HG21	1:J:65:LEU:CD1	2.28	0.63
1:B:287:ILE:HG21	1:D:65:LEU:CD1	2.28	0.63
1:I:287:ILE:HG13	1:K:61:LYS:HB3	1.80	0.63
1:A:287:ILE:HG21	1:C:65:LEU:CD1	2.28	0.63
1:G:287:ILE:HG13	1:I:61:LYS:HB3	1.80	0.63
1:J:248:ILE:HD13	1:J:248:ILE:H	1.64	0.63
1:H:287:ILE:HG13	1:J:61:LYS:HB3	1.80	0.63
1:H:248:ILE:H	1:H:248:ILE:HD13	1.64	0.63
1:F:35:VAL:HG21	1:F:81:ASP:CB	2.27	0.62
1:B:248:ILE:HD13	1:B:248:ILE:H	1.64	0.62
1:A:248:ILE:H	1:A:248:ILE:HD13	1.64	0.62
1:E:248:ILE:HD13	1:E:248:ILE:H	1.64	0.62
1:G:248:ILE:H	1:G:248:ILE:HD13	1.64	0.62
1:B:286:ASP:CG	1:D:47:MET:HA	2.19	0.62
1:F:248:ILE:H	1:F:248:ILE:HD13	1.64	0.62
1:C:248:ILE:H	1:C:248:ILE:HD13	1.64	0.62
1:A:287:ILE:HG13	1:C:61:LYS:HB3	1.80	0.62
1:I:248:ILE:H	1:I:248:ILE:HD13	1.64	0.62
1:F:287:ILE:HG21	1:H:65:LEU:CD1	2.28	0.62
1:J:35:VAL:HG21	1:J:81:ASP:CB	2.27	0.62
1:D:287:ILE:HG13	1:F:61:LYS:HB3	1.80	0.62
1:H:286:ASP:CG	1:J:47:MET:HA	2.19	0.62
1:D:248:ILE:HD13	1:D:248:ILE:H	1.64	0.62
1:C:286:ASP:CG	1:E:47:MET:HA	2.19	0.62
1:C:287:ILE:HG13	1:E:61:LYS:HB3	1.80	0.62
1:E:286:ASP:CG	1:G:47:MET:HA	2.19	0.62
1:G:286:ASP:CG	1:I:47:MET:HA	2.19	0.61
1:A:286:ASP:CG	1:C:47:MET:HA	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:170:ALA:H	1:J:375:PHE:HB3	1.65	0.61
1:I:286:ASP:CG	1:K:47:MET:HA	2.19	0.61
1:I:287:ILE:HG12	1:K:61:LYS:O	2.01	0.61
1:F:286:ASP:CG	1:H:47:MET:HA	2.19	0.61
1:B:170:ALA:H	1:B:375:PHE:HB3	1.65	0.61
1:K:248:ILE:HD13	1:K:248:ILE:H	1.64	0.61
1:B:287:ILE:HG12	1:D:61:LYS:O	2.01	0.61
1:C:287:ILE:HG12	1:E:61:LYS:O	2.01	0.61
1:H:170:ALA:H	1:H:375:PHE:HB3	1.65	0.61
1:D:170:ALA:H	1:D:375:PHE:HB3	1.65	0.61
1:K:196:ARG:NH2	1:K:231:ALA:HA	2.16	0.61
1:F:196:ARG:NH2	1:F:231:ALA:HA	2.16	0.61
1:G:196:ARG:NH2	1:G:231:ALA:HA	2.16	0.61
1:E:287:ILE:HG13	1:G:61:LYS:HB3	1.80	0.61
1:H:288:ASP:OD1	1:J:53:TYR:CE2	2.54	0.61
1:A:288:ASP:OD1	1:C:53:TYR:CE2	2.54	0.61
1:F:288:ASP:OD1	1:H:53:TYR:CE2	2.54	0.61
1:H:196:ARG:NH2	1:H:231:ALA:HA	2.16	0.61
1:G:171:LEU:CD2	1:I:45:VAL:CG1	2.46	0.61
1:C:288:ASP:OD1	1:E:53:TYR:CE2	2.54	0.61
1:I:288:ASP:OD1	1:K:53:TYR:CE2	2.54	0.61
1:J:196:ARG:NH2	1:J:231:ALA:HA	2.16	0.61
1:A:196:ARG:NH2	1:A:231:ALA:HA	2.16	0.61
1:E:196:ARG:NH2	1:E:231:ALA:HA	2.16	0.61
1:E:287:ILE:HG12	1:G:61:LYS:O	2.01	0.61
1:B:139:VAL:HA	1:B:165:ILE:CD1	2.31	0.61
1:G:139:VAL:HA	1:G:165:ILE:CD1	2.31	0.61
1:H:287:ILE:HG12	1:J:61:LYS:O	2.01	0.61
1:G:287:ILE:HG12	1:I:61:LYS:O	2.01	0.61
1:B:288:ASP:OD1	1:D:53:TYR:CE2	2.54	0.61
1:E:288:ASP:OD1	1:G:53:TYR:CE2	2.54	0.61
1:D:139:VAL:HA	1:D:165:ILE:CD1	2.31	0.61
1:A:139:VAL:HA	1:A:165:ILE:CD1	2.31	0.61
1:H:185:LEU:HD22	1:H:257:CYS:O	2.01	0.61
1:A:185:LEU:HD22	1:A:257:CYS:O	2.01	0.61
1:I:196:ARG:NH2	1:I:231:ALA:HA	2.16	0.61
1:B:196:ARG:NH2	1:B:231:ALA:HA	2.16	0.61
1:G:288:ASP:OD1	1:I:53:TYR:CE2	2.54	0.60
1:D:288:ASP:OD1	1:F:53:TYR:CE2	2.54	0.60
1:D:196:ARG:NH2	1:D:231:ALA:HA	2.16	0.60
1:D:287:ILE:HG12	1:F:61:LYS:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:ILE:HG12	1:C:61:LYS:O	2.01	0.60
1:E:170:ALA:H	1:E:375:PHE:HB3	1.65	0.60
1:K:139:VAL:HA	1:K:165:ILE:CD1	2.31	0.60
1:F:139:VAL:HA	1:F:165:ILE:CD1	2.31	0.60
1:F:170:ALA:H	1:F:375:PHE:HB3	1.65	0.60
1:C:139:VAL:HA	1:C:165:ILE:CD1	2.31	0.60
1:C:170:ALA:H	1:C:375:PHE:HB3	1.65	0.60
1:A:170:ALA:H	1:A:375:PHE:HB3	1.65	0.60
1:J:185:LEU:HD22	1:J:257:CYS:O	2.01	0.60
1:H:139:VAL:HA	1:H:165:ILE:CD1	2.31	0.60
1:I:170:ALA:H	1:I:375:PHE:HB3	1.65	0.60
1:G:170:ALA:H	1:G:375:PHE:HB3	1.65	0.60
1:F:185:LEU:HD22	1:F:257:CYS:O	2.01	0.60
1:D:286:ASP:CG	1:F:47:MET:HA	2.19	0.60
1:I:139:VAL:HA	1:I:165:ILE:CD1	2.31	0.60
1:E:139:VAL:HA	1:E:165:ILE:CD1	2.31	0.60
1:D:185:LEU:HD22	1:D:257:CYS:O	2.01	0.60
1:C:196:ARG:NH2	1:C:231:ALA:HA	2.16	0.60
1:F:287:ILE:HG12	1:H:61:LYS:O	2.01	0.60
1:F:171:LEU:CD2	1:H:45:VAL:CG1	2.46	0.60
1:J:139:VAL:HA	1:J:165:ILE:CD1	2.31	0.60
1:B:185:LEU:HD22	1:B:257:CYS:O	2.01	0.60
1:K:170:ALA:H	1:K:375:PHE:HB3	1.65	0.60
1:I:185:LEU:HD22	1:I:257:CYS:O	2.01	0.60
1:K:185:LEU:HD22	1:K:257:CYS:O	2.01	0.60
1:K:260:THR:HG21	1:K:267:ILE:HG23	1.84	0.60
1:E:185:LEU:HD22	1:E:257:CYS:O	2.01	0.59
1:H:260:THR:HG21	1:H:267:ILE:HG23	1.84	0.59
1:I:260:THR:HG21	1:I:267:ILE:HG23	1.84	0.59
1:H:171:LEU:CD2	1:J:45:VAL:CG1	2.46	0.59
1:G:185:LEU:HD22	1:G:257:CYS:O	2.01	0.59
1:B:260:THR:HG21	1:B:267:ILE:HG23	1.84	0.59
1:C:185:LEU:HD22	1:C:257:CYS:O	2.01	0.59
1:F:260:THR:HG21	1:F:267:ILE:HG23	1.84	0.59
1:D:260:THR:HG21	1:D:267:ILE:HG23	1.85	0.59
1:J:260:THR:HG21	1:J:267:ILE:HG23	1.84	0.59
1:E:260:THR:HG21	1:E:267:ILE:HG23	1.84	0.59
1:A:260:THR:HG21	1:A:267:ILE:HG23	1.85	0.59
1:C:260:THR:HG21	1:C:267:ILE:HG23	1.85	0.59
1:G:260:THR:HG21	1:G:267:ILE:HG23	1.85	0.59
1:I:171:LEU:CD2	1:K:45:VAL:CG1	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:171:LEU:HD21	1:C:45:VAL:HG12	1.76	0.58
1:B:171:LEU:CD2	1:D:45:VAL:CG1	2.46	0.58
1:G:35:VAL:HG21	1:G:81:ASP:CG	2.24	0.58
1:E:35:VAL:HG21	1:E:81:ASP:CG	2.24	0.58
1:B:287:ILE:HG21	1:D:65:LEU:CD2	2.34	0.58
1:H:35:VAL:CG2	1:H:81:ASP:HB3	2.34	0.58
1:H:171:LEU:HD21	1:J:45:VAL:HG12	1.76	0.58
1:A:35:VAL:CG2	1:A:81:ASP:HB3	2.34	0.58
1:J:35:VAL:HG21	1:J:81:ASP:CG	2.24	0.58
1:C:35:VAL:HG21	1:C:81:ASP:CG	2.24	0.57
1:I:35:VAL:HG21	1:I:81:ASP:CG	2.24	0.57
1:G:312:ARG:HH11	1:G:312:ARG:HG3	1.69	0.57
1:C:287:ILE:HG21	1:E:65:LEU:CD2	2.34	0.57
1:H:35:VAL:HG21	1:H:81:ASP:CG	2.24	0.57
1:G:180:LEU:HD23	1:G:261:LEU:HD23	1.87	0.57
1:B:312:ARG:HH11	1:B:312:ARG:HG3	1.69	0.57
1:D:312:ARG:HH11	1:D:312:ARG:HG3	1.69	0.57
1:C:171:LEU:HD21	1:E:45:VAL:HG12	1.75	0.57
1:B:35:VAL:HG21	1:B:81:ASP:CG	2.24	0.57
1:H:180:LEU:HD23	1:H:261:LEU:HD23	1.87	0.57
1:I:312:ARG:HG3	1:I:312:ARG:HH11	1.69	0.57
1:J:180:LEU:HD23	1:J:261:LEU:HD23	1.87	0.57
1:A:180:LEU:HD23	1:A:261:LEU:HD23	1.87	0.57
1:J:312:ARG:HH11	1:J:312:ARG:HG3	1.70	0.57
1:D:287:ILE:HG21	1:F:65:LEU:CD2	2.34	0.57
1:K:35:VAL:HG21	1:K:81:ASP:CG	2.24	0.57
1:D:35:VAL:CG2	1:D:81:ASP:HB3	2.34	0.57
1:A:35:VAL:HG21	1:A:81:ASP:CG	2.24	0.57
1:I:180:LEU:HD23	1:I:261:LEU:HD23	1.87	0.57
1:H:312:ARG:HG3	1:H:312:ARG:HH11	1.69	0.57
1:K:312:ARG:HG3	1:K:312:ARG:HH11	1.69	0.57
1:I:287:ILE:HG21	1:K:65:LEU:CD2	2.34	0.57
1:G:287:ILE:HG21	1:I:65:LEU:CD2	2.34	0.57
1:F:35:VAL:CG2	1:F:81:ASP:HB3	2.34	0.57
1:F:180:LEU:HD23	1:F:261:LEU:HD23	1.87	0.57
1:A:312:ARG:HG3	1:A:312:ARG:HH11	1.69	0.57
1:F:171:LEU:HD21	1:H:45:VAL:HG12	1.76	0.57
1:B:35:VAL:CG2	1:B:81:ASP:HB3	2.34	0.57
1:F:35:VAL:HG21	1:F:81:ASP:CG	2.24	0.57
1:D:250:ILE:HG13	1:D:253:GLU:HB2	1.87	0.57
1:K:180:LEU:HD23	1:K:261:LEU:HD23	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:139:VAL:HA	1:B:165:ILE:HD11	1.87	0.57
1:A:139:VAL:HA	1:A:165:ILE:HD11	1.87	0.57
1:B:250:ILE:HG13	1:B:253:GLU:HB2	1.87	0.57
1:E:180:LEU:HD23	1:E:261:LEU:HD23	1.87	0.57
1:C:180:LEU:HD23	1:C:261:LEU:HD23	1.87	0.57
1:B:345:ILE:O	1:B:349:LEU:HG	2.05	0.57
1:E:287:ILE:HG21	1:G:65:LEU:CD2	2.34	0.57
1:J:139:VAL:HA	1:J:165:ILE:HD11	1.87	0.57
1:F:250:ILE:HG13	1:F:253:GLU:HB2	1.87	0.57
1:B:180:LEU:HD23	1:B:261:LEU:HD23	1.87	0.57
1:A:287:ILE:HG21	1:C:65:LEU:CD2	2.34	0.57
1:E:35:VAL:CG2	1:E:81:ASP:HB3	2.34	0.57
1:G:35:VAL:CG2	1:G:81:ASP:HB3	2.34	0.57
1:D:35:VAL:HG21	1:D:81:ASP:CG	2.24	0.57
1:J:35:VAL:CG2	1:J:81:ASP:HB3	2.34	0.57
1:C:139:VAL:HA	1:C:165:ILE:HD11	1.87	0.57
1:I:139:VAL:HA	1:I:165:ILE:HD11	1.87	0.57
1:K:139:VAL:HA	1:K:165:ILE:HD11	1.87	0.57
1:G:139:VAL:HA	1:G:165:ILE:HD11	1.87	0.57
1:A:345:ILE:O	1:A:349:LEU:HG	2.05	0.57
1:E:312:ARG:HH11	1:E:312:ARG:HG3	1.69	0.57
1:H:139:VAL:HA	1:H:165:ILE:HD11	1.87	0.56
1:I:242:LEU:CD1	1:I:243:PRO:HD2	2.35	0.56
1:J:242:LEU:CD1	1:J:243:PRO:HD2	2.35	0.56
1:K:250:ILE:HG13	1:K:253:GLU:HB2	1.87	0.56
1:F:117:GLU:HA	1:F:367:PRO:CB	2.35	0.56
1:K:345:ILE:O	1:K:349:LEU:HG	2.05	0.56
1:E:345:ILE:O	1:E:349:LEU:HG	2.05	0.56
1:G:166:TYR:CG	1:G:289:ILE:HG21	2.41	0.56
1:F:139:VAL:HA	1:F:165:ILE:HD11	1.87	0.56
1:C:242:LEU:CD1	1:C:243:PRO:HD2	2.35	0.56
1:D:180:LEU:HD23	1:D:261:LEU:HD23	1.87	0.56
1:F:312:ARG:HH11	1:F:312:ARG:HG3	1.69	0.56
1:E:171:LEU:HD21	1:G:45:VAL:HG12	1.76	0.56
1:F:287:ILE:HG21	1:H:65:LEU:CD2	2.34	0.56
1:E:166:TYR:CG	1:E:289:ILE:HG21	2.41	0.56
1:I:166:TYR:CG	1:I:289:ILE:HG21	2.41	0.56
1:I:169:TYR:CD2	1:I:375:PHE:HA	2.40	0.56
1:A:169:TYR:CD2	1:A:375:PHE:HA	2.40	0.56
1:D:139:VAL:HA	1:D:165:ILE:HD11	1.87	0.56
1:K:169:TYR:CD2	1:K:375:PHE:HA	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:242:LEU:CD1	1:G:243:PRO:HD2	2.35	0.56
1:I:250:ILE:HG13	1:I:253:GLU:HB2	1.87	0.56
1:H:250:ILE:HG13	1:H:253:GLU:HB2	1.87	0.56
1:B:31:PHE:HZ	1:B:89:THR:HG1	1.53	0.56
1:C:312:ARG:HG3	1:C:312:ARG:HH11	1.69	0.56
1:A:117:GLU:HA	1:A:367:PRO:CB	2.35	0.56
1:H:117:GLU:HA	1:H:367:PRO:CB	2.35	0.56
1:C:117:GLU:HA	1:C:367:PRO:CB	2.35	0.56
1:K:166:TYR:CG	1:K:289:ILE:HG21	2.41	0.56
1:I:153:LEU:HD13	1:I:162:ASN:OD1	2.05	0.56
1:J:345:ILE:O	1:J:349:LEU:HG	2.05	0.56
1:H:287:ILE:CG2	1:J:65:LEU:HD21	2.36	0.56
1:E:139:VAL:HA	1:E:165:ILE:HD11	1.87	0.56
1:J:169:TYR:CD2	1:J:375:PHE:HA	2.40	0.56
1:E:242:LEU:CD1	1:E:243:PRO:HD2	2.35	0.56
1:D:117:GLU:HA	1:D:367:PRO:CB	2.35	0.56
1:H:345:ILE:O	1:H:349:LEU:HG	2.05	0.56
1:E:117:GLU:HA	1:E:367:PRO:CB	2.35	0.56
1:D:153:LEU:HD13	1:D:162:ASN:OD1	2.05	0.56
1:K:35:VAL:CG2	1:K:81:ASP:HB3	2.34	0.56
1:K:117:GLU:HA	1:K:367:PRO:CB	2.35	0.56
1:A:153:LEU:HD13	1:A:162:ASN:OD1	2.05	0.56
1:G:117:GLU:HA	1:G:367:PRO:CB	2.35	0.56
1:F:287:ILE:CG2	1:H:65:LEU:HD21	2.36	0.56
1:C:169:TYR:CD2	1:C:375:PHE:HA	2.40	0.56
1:J:117:GLU:HA	1:J:367:PRO:CB	2.35	0.56
1:I:345:ILE:O	1:I:349:LEU:HG	2.05	0.56
1:C:345:ILE:O	1:C:349:LEU:HG	2.05	0.56
1:K:153:LEU:HD13	1:K:162:ASN:OD1	2.05	0.56
1:E:153:LEU:HD13	1:E:162:ASN:OD1	2.05	0.56
1:D:171:LEU:HD21	1:F:45:VAL:HG12	1.75	0.56
1:C:287:ILE:CG2	1:E:65:LEU:HD21	2.36	0.56
1:A:287:ILE:CG2	1:C:65:LEU:HD21	2.36	0.56
1:H:169:TYR:CD2	1:H:375:PHE:HA	2.40	0.56
1:G:169:TYR:CD2	1:G:375:PHE:HA	2.40	0.56
1:A:242:LEU:CD1	1:A:243:PRO:HD2	2.35	0.56
1:D:345:ILE:O	1:D:349:LEU:HG	2.05	0.56
1:B:166:TYR:CG	1:B:289:ILE:HG21	2.41	0.56
1:F:169:TYR:CD2	1:F:375:PHE:HA	2.40	0.56
1:F:242:LEU:CD1	1:F:243:PRO:HD2	2.35	0.56
1:I:117:GLU:HA	1:I:367:PRO:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:287:ILE:CG2	1:K:65:LEU:HD21	2.36	0.56
1:A:166:TYR:CG	1:A:289:ILE:HG21	2.41	0.56
1:H:286:ASP:HB2	1:J:46:GLY:O	2.06	0.56
1:I:35:VAL:CG2	1:I:81:ASP:HB3	2.34	0.56
1:C:250:ILE:HG13	1:C:253:GLU:HB2	1.87	0.56
1:F:345:ILE:O	1:F:349:LEU:HG	2.05	0.56
1:J:153:LEU:HD13	1:J:162:ASN:OD1	2.05	0.56
1:H:287:ILE:HG21	1:J:65:LEU:CD2	2.34	0.56
1:D:169:TYR:CD2	1:D:375:PHE:HA	2.40	0.56
1:G:250:ILE:HG13	1:G:253:GLU:HB2	1.87	0.56
1:G:153:LEU:HD13	1:G:162:ASN:OD1	2.05	0.56
1:C:153:LEU:HD13	1:C:162:ASN:OD1	2.05	0.56
1:B:117:GLU:HA	1:B:367:PRO:CB	2.35	0.55
1:D:287:ILE:CG2	1:F:65:LEU:HD21	2.36	0.55
1:E:287:ILE:CG2	1:G:65:LEU:HD21	2.36	0.55
1:D:286:ASP:HB2	1:F:46:GLY:O	2.07	0.55
1:C:166:TYR:CG	1:C:289:ILE:HG21	2.41	0.55
1:C:35:VAL:CG2	1:C:81:ASP:HB3	2.34	0.55
1:D:242:LEU:CD1	1:D:243:PRO:HD2	2.35	0.55
1:B:218:TYR:O	1:B:255:PHE:HA	2.06	0.55
1:G:171:LEU:HD21	1:I:45:VAL:HG12	1.75	0.55
1:D:166:TYR:CG	1:D:289:ILE:HG21	2.41	0.55
1:G:71:ILE:HG22	1:G:73:HIS:H	1.72	0.55
1:H:242:LEU:CD1	1:H:243:PRO:HD2	2.35	0.55
1:E:250:ILE:HG13	1:E:253:GLU:HB2	1.87	0.55
1:J:250:ILE:HG13	1:J:253:GLU:HB2	1.87	0.55
1:G:345:ILE:O	1:G:349:LEU:HG	2.05	0.55
1:D:218:TYR:O	1:D:255:PHE:HA	2.06	0.55
1:A:250:ILE:HG13	1:A:253:GLU:HB2	1.87	0.55
1:A:218:TYR:O	1:A:255:PHE:HA	2.06	0.55
1:G:287:ILE:CG2	1:I:65:LEU:HD21	2.36	0.55
1:F:166:TYR:CG	1:F:289:ILE:HG21	2.41	0.55
1:E:169:TYR:CD2	1:E:375:PHE:HA	2.40	0.55
1:B:169:TYR:CD2	1:B:375:PHE:HA	2.40	0.55
1:G:242:LEU:HB3	1:G:244:ASP:OD2	2.07	0.55
1:B:287:ILE:CG2	1:D:65:LEU:HD21	2.36	0.55
1:E:53:TYR:HD1	1:E:57:GLU:OE2	1.90	0.55
1:F:53:TYR:HD1	1:F:57:GLU:OE2	1.90	0.55
1:C:53:TYR:HD1	1:C:57:GLU:OE2	1.90	0.55
1:J:166:TYR:CG	1:J:289:ILE:HG21	2.41	0.55
1:F:218:TYR:O	1:F:255:PHE:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:286:ASP:HB2	1:H:46:GLY:O	2.07	0.55
1:I:242:LEU:HB3	1:I:244:ASP:OD2	2.07	0.55
1:F:242:LEU:HB3	1:F:244:ASP:OD2	2.07	0.55
1:D:189:LEU:CD1	1:D:253:GLU:HB3	2.37	0.55
1:H:153:LEU:HD13	1:H:162:ASN:OD1	2.05	0.55
1:E:218:TYR:O	1:E:255:PHE:HA	2.06	0.55
1:K:218:TYR:O	1:K:255:PHE:HA	2.06	0.55
1:E:71:ILE:HG22	1:E:73:HIS:H	1.72	0.55
1:I:71:ILE:HG22	1:I:73:HIS:H	1.72	0.55
1:F:189:LEU:CD1	1:F:253:GLU:HB3	2.37	0.55
1:F:153:LEU:HD13	1:F:162:ASN:OD1	2.05	0.55
1:J:53:TYR:HD1	1:J:57:GLU:OE2	1.90	0.55
1:K:242:LEU:CD1	1:K:243:PRO:HD2	2.35	0.55
1:B:189:LEU:CD1	1:B:253:GLU:HB3	2.37	0.55
1:A:180:LEU:HD13	1:A:267:ILE:HD13	1.89	0.55
1:B:153:LEU:HD13	1:B:162:ASN:OD1	2.05	0.55
1:A:286:ASP:HB2	1:C:46:GLY:O	2.06	0.55
1:K:53:TYR:HD1	1:K:57:GLU:OE2	1.90	0.55
1:H:242:LEU:HB3	1:H:244:ASP:OD2	2.07	0.55
1:K:189:LEU:CD1	1:K:253:GLU:HB3	2.37	0.55
1:E:180:LEU:HD13	1:E:267:ILE:HD13	1.89	0.55
1:G:180:LEU:HD13	1:G:267:ILE:HD13	1.89	0.55
1:B:171:LEU:HD21	1:D:45:VAL:HG12	1.76	0.54
1:A:287:ILE:CG1	1:C:61:LYS:HB3	2.37	0.54
1:D:53:TYR:HD1	1:D:57:GLU:OE2	1.90	0.54
1:G:53:TYR:HD1	1:G:57:GLU:OE2	1.90	0.54
1:B:242:LEU:HB3	1:B:244:ASP:OD2	2.07	0.54
1:H:189:LEU:CD1	1:H:253:GLU:HB3	2.37	0.54
1:C:180:LEU:HD13	1:C:267:ILE:HD13	1.89	0.54
1:F:353:GLN:HA	1:F:356:TRP:CD1	2.43	0.54
1:C:218:TYR:O	1:C:255:PHE:HA	2.06	0.54
1:A:53:TYR:HD1	1:A:57:GLU:OE2	1.90	0.54
1:A:242:LEU:HB3	1:A:244:ASP:OD2	2.07	0.54
1:I:189:LEU:CD1	1:I:253:GLU:HB3	2.37	0.54
1:A:189:LEU:CD1	1:A:253:GLU:HB3	2.37	0.54
1:I:180:LEU:HD13	1:I:267:ILE:HD13	1.89	0.54
1:G:353:GLN:HA	1:G:356:TRP:CD1	2.43	0.54
1:B:242:LEU:CD1	1:B:243:PRO:HD2	2.35	0.54
1:G:218:TYR:O	1:G:255:PHE:HA	2.06	0.54
1:J:218:TYR:O	1:J:255:PHE:HA	2.06	0.54
1:J:353:GLN:HA	1:J:356:TRP:CD1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:171:LEU:HD21	1:K:45:VAL:HG12	1.76	0.54
1:C:287:ILE:CG1	1:E:61:LYS:HB3	2.37	0.54
1:H:166:TYR:CG	1:H:289:ILE:HG21	2.41	0.54
1:K:242:LEU:HB3	1:K:244:ASP:OD2	2.07	0.54
1:G:189:LEU:CD1	1:G:253:GLU:HB3	2.37	0.54
1:I:218:TYR:O	1:I:255:PHE:HA	2.06	0.54
1:B:353:GLN:HA	1:B:356:TRP:CD1	2.43	0.54
1:B:53:TYR:HD1	1:B:57:GLU:OE2	1.90	0.54
1:K:353:GLN:HA	1:K:356:TRP:CD1	2.43	0.54
1:F:287:ILE:CG1	1:H:61:LYS:HB3	2.38	0.54
1:B:287:ILE:CG1	1:D:61:LYS:O	2.56	0.54
1:B:286:ASP:HB2	1:D:46:GLY:O	2.06	0.54
1:C:242:LEU:HB3	1:C:244:ASP:OD2	2.07	0.54
1:H:218:TYR:O	1:H:255:PHE:HA	2.06	0.54
1:A:353:GLN:HA	1:A:356:TRP:CD1	2.42	0.54
1:E:124:PHE:O	1:E:128:ASN:HA	2.08	0.54
1:C:71:ILE:HG22	1:C:73:HIS:H	1.72	0.54
1:E:242:LEU:HB3	1:E:244:ASP:OD2	2.07	0.54
1:E:189:LEU:CD1	1:E:253:GLU:HB3	2.37	0.54
1:J:180:LEU:HD13	1:J:267:ILE:HD13	1.89	0.54
1:I:117:GLU:HA	1:I:367:PRO:CG	2.38	0.54
1:G:124:PHE:O	1:G:128:ASN:HA	2.08	0.54
1:A:124:PHE:O	1:A:128:ASN:HA	2.08	0.54
1:C:124:PHE:O	1:C:128:ASN:HA	2.08	0.54
1:D:287:ILE:CG1	1:F:61:LYS:HB3	2.38	0.54
1:I:287:ILE:CG1	1:K:61:LYS:HB3	2.37	0.54
1:H:287:ILE:CG1	1:J:61:LYS:HB3	2.37	0.54
1:G:287:ILE:CG1	1:I:65:LEU:HG	2.35	0.54
1:B:71:ILE:HG22	1:B:73:HIS:H	1.72	0.54
1:K:71:ILE:HG22	1:K:73:HIS:H	1.72	0.54
1:J:242:LEU:HB3	1:J:244:ASP:OD2	2.07	0.54
1:D:242:LEU:HB3	1:D:244:ASP:OD2	2.07	0.54
1:C:189:LEU:CD1	1:C:253:GLU:HB3	2.37	0.54
1:H:180:LEU:HD13	1:H:267:ILE:HD13	1.89	0.54
1:D:353:GLN:HA	1:D:356:TRP:CD1	2.43	0.54
1:C:353:GLN:HA	1:C:356:TRP:CD1	2.42	0.54
1:J:124:PHE:O	1:J:128:ASN:HA	2.08	0.54
1:D:287:ILE:CG1	1:F:61:LYS:O	2.56	0.54
1:A:287:ILE:CG1	1:C:61:LYS:O	2.56	0.54
1:C:286:ASP:HB2	1:E:46:GLY:O	2.07	0.54
1:J:189:LEU:CD1	1:J:253:GLU:HB3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:180:LEU:HD13	1:K:267:ILE:HD13	1.89	0.54
1:H:117:GLU:HA	1:H:367:PRO:CG	2.38	0.54
1:C:117:GLU:HA	1:C:367:PRO:CG	2.38	0.54
1:J:117:GLU:HA	1:J:367:PRO:CG	2.38	0.54
1:B:117:GLU:HA	1:B:367:PRO:CG	2.38	0.54
1:H:287:ILE:CG1	1:J:61:LYS:O	2.56	0.54
1:E:287:ILE:CG1	1:G:61:LYS:HB3	2.38	0.54
1:I:53:TYR:HD1	1:I:57:GLU:OE2	1.90	0.54
1:D:193:LEU:CD2	1:D:253:GLU:HG2	2.38	0.54
1:I:286:ASP:HB2	1:K:46:GLY:O	2.06	0.54
1:G:286:ASP:HB2	1:I:46:GLY:O	2.06	0.54
1:I:353:GLN:HA	1:I:356:TRP:CD1	2.43	0.54
1:A:71:ILE:HG22	1:A:73:HIS:H	1.72	0.53
1:J:193:LEU:CD2	1:J:253:GLU:HG2	2.38	0.53
1:D:117:GLU:HA	1:D:367:PRO:CG	2.38	0.53
1:G:117:GLU:HA	1:G:367:PRO:CG	2.38	0.53
1:E:353:GLN:HA	1:E:356:TRP:CD1	2.43	0.53
1:I:124:PHE:O	1:I:128:ASN:HA	2.08	0.53
1:F:287:ILE:CG1	1:H:61:LYS:O	2.56	0.53
1:I:287:ILE:CG1	1:K:61:LYS:O	2.56	0.53
1:E:287:ILE:CG1	1:G:65:LEU:HG	2.35	0.53
1:E:286:ASP:HB2	1:G:46:GLY:O	2.07	0.53
1:J:71:ILE:HG22	1:J:73:HIS:H	1.72	0.53
1:D:71:ILE:HG22	1:D:73:HIS:H	1.72	0.53
1:F:193:LEU:CD2	1:F:253:GLU:HG2	2.38	0.53
1:A:193:LEU:CD2	1:A:253:GLU:HG2	2.38	0.53
1:I:172:PRO:HA	1:I:175:ILE:HD12	1.91	0.53
1:B:287:ILE:CG1	1:D:61:LYS:HB3	2.38	0.53
1:F:180:LEU:HD13	1:F:267:ILE:HD13	1.89	0.53
1:A:117:GLU:HA	1:A:367:PRO:CG	2.38	0.53
1:E:172:PRO:HA	1:E:175:ILE:HD12	1.91	0.53
1:G:172:PRO:HA	1:G:175:ILE:HD12	1.91	0.53
1:G:287:ILE:CG1	1:I:61:LYS:HB3	2.38	0.53
1:I:192:ILE:HG13	1:I:253:GLU:HG3	1.91	0.53
1:C:193:LEU:CD2	1:C:253:GLU:HG2	2.38	0.53
1:K:117:GLU:HA	1:K:367:PRO:CG	2.38	0.53
1:K:172:PRO:HA	1:K:175:ILE:HD12	1.91	0.53
1:H:124:PHE:O	1:H:128:ASN:HA	2.08	0.53
1:H:353:GLN:HA	1:H:356:TRP:CD1	2.43	0.53
1:B:172:PRO:HA	1:B:175:ILE:HD12	1.91	0.53
1:C:287:ILE:CG1	1:E:61:LYS:O	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:LEU:HD13	1:B:267:ILE:HD13	1.89	0.53
1:E:117:GLU:HA	1:E:367:PRO:CG	2.38	0.53
1:B:287:ILE:CG1	1:D:65:LEU:HG	2.35	0.53
1:E:287:ILE:CG1	1:G:61:LYS:O	2.56	0.53
1:H:53:TYR:HD1	1:H:57:GLU:OE2	1.90	0.53
1:G:192:ILE:HG13	1:G:253:GLU:HG3	1.91	0.53
1:B:192:ILE:HG13	1:B:253:GLU:HG3	1.91	0.53
1:K:192:ILE:HG13	1:K:253:GLU:HG3	1.91	0.53
1:I:193:LEU:CD2	1:I:253:GLU:HG2	2.38	0.53
1:F:117:GLU:HA	1:F:367:PRO:CG	2.38	0.53
1:J:8:LEU:HG	1:J:101:HIS:HB3	1.91	0.53
1:K:54:VAL:HG21	1:K:84:LYS:HD3	1.91	0.53
1:C:172:PRO:HA	1:C:175:ILE:HD12	1.91	0.53
1:I:54:VAL:HG21	1:I:84:LYS:HD3	1.91	0.53
1:F:71:ILE:HG22	1:F:73:HIS:H	1.72	0.53
1:H:193:LEU:CD2	1:H:253:GLU:HG2	2.38	0.53
1:D:180:LEU:HD13	1:D:267:ILE:HD13	1.89	0.53
1:G:219:VAL:HG21	1:G:312:ARG:HG2	1.91	0.53
1:I:219:VAL:HG21	1:I:312:ARG:HG2	1.91	0.53
1:D:172:PRO:HA	1:D:175:ILE:HD12	1.91	0.53
1:H:8:LEU:HG	1:H:101:HIS:HB3	1.91	0.53
1:I:287:ILE:CG1	1:K:65:LEU:HG	2.36	0.53
1:G:193:LEU:CD2	1:G:253:GLU:HG2	2.38	0.53
1:E:193:LEU:CD2	1:E:253:GLU:HG2	2.38	0.53
1:D:124:PHE:CZ	1:D:132:MET:HG3	2.44	0.53
1:B:124:PHE:O	1:B:128:ASN:HA	2.08	0.53
1:B:8:LEU:HG	1:B:101:HIS:HB3	1.91	0.53
1:K:219:VAL:HG21	1:K:312:ARG:HG2	1.91	0.53
1:E:219:VAL:HG21	1:E:312:ARG:HG2	1.91	0.53
1:J:124:PHE:CZ	1:J:132:MET:HG3	2.44	0.53
1:B:124:PHE:CZ	1:B:132:MET:HG3	2.44	0.53
1:D:8:LEU:HG	1:D:101:HIS:HB3	1.91	0.53
1:K:124:PHE:O	1:K:128:ASN:HA	2.08	0.53
1:B:54:VAL:HG21	1:B:84:LYS:HD3	1.91	0.53
1:A:31:PHE:HZ	1:A:89:THR:HG1	1.56	0.53
1:G:287:ILE:CG1	1:I:61:LYS:O	2.56	0.52
1:H:71:ILE:HG22	1:H:73:HIS:H	1.72	0.52
1:A:124:PHE:CZ	1:A:132:MET:HG3	2.44	0.52
1:C:124:PHE:CZ	1:C:132:MET:HG3	2.44	0.52
1:G:54:VAL:HG21	1:G:84:LYS:HD3	1.91	0.52
1:F:124:PHE:O	1:F:128:ASN:HA	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:44:MET:HA	1:H:47:MET:HG2	1.92	0.52
1:B:193:LEU:CD2	1:B:253:GLU:HG2	2.38	0.52
1:D:192:ILE:HG13	1:D:253:GLU:HG3	1.91	0.52
1:E:124:PHE:CZ	1:E:132:MET:HG3	2.44	0.52
1:A:172:PRO:HA	1:A:175:ILE:HD12	1.91	0.52
1:F:8:LEU:HG	1:F:101:HIS:HB3	1.91	0.52
1:D:287:ILE:CG1	1:F:65:LEU:HG	2.36	0.52
1:G:44:MET:HA	1:G:47:MET:HG2	1.92	0.52
1:I:44:MET:HA	1:I:47:MET:HG2	1.92	0.52
1:K:193:LEU:CD2	1:K:253:GLU:HG2	2.38	0.52
1:C:219:VAL:HG21	1:C:312:ARG:HG2	1.91	0.52
1:D:54:VAL:HG21	1:D:84:LYS:HD3	1.91	0.52
1:F:192:ILE:HG13	1:F:253:GLU:HG3	1.91	0.52
1:E:192:ILE:HG13	1:E:253:GLU:HG3	1.91	0.52
1:D:124:PHE:O	1:D:128:ASN:HA	2.08	0.52
1:F:172:PRO:HA	1:F:175:ILE:CD1	2.40	0.52
1:A:219:VAL:HG21	1:A:312:ARG:HG2	1.91	0.52
1:E:172:PRO:HA	1:E:175:ILE:CD1	2.40	0.52
1:B:172:PRO:HA	1:B:175:ILE:CD1	2.40	0.52
1:A:172:PRO:HA	1:A:175:ILE:CD1	2.40	0.52
1:A:154:ASP:O	1:A:160:THR:HA	2.10	0.52
1:D:97:ALA:HB3	1:D:100:GLU:HG2	1.91	0.52
1:A:44:MET:HA	1:A:47:MET:HG2	1.92	0.52
1:A:6:THR:O	1:A:102:PRO:HD2	2.10	0.52
1:K:154:ASP:O	1:K:160:THR:HA	2.10	0.52
1:J:172:PRO:HA	1:J:175:ILE:CD1	2.40	0.52
1:E:154:ASP:O	1:E:160:THR:HA	2.10	0.52
1:E:287:ILE:HA	1:G:64:ILE:HD12	1.89	0.52
1:F:44:MET:HA	1:F:47:MET:HG2	1.92	0.52
1:E:44:MET:HA	1:E:47:MET:HG2	1.92	0.52
1:J:44:MET:HA	1:J:47:MET:HG2	1.92	0.52
1:G:124:PHE:CZ	1:G:132:MET:HG3	2.44	0.52
1:H:124:PHE:CZ	1:H:132:MET:HG3	2.44	0.52
1:B:97:ALA:HB3	1:B:100:GLU:HG2	1.91	0.52
1:G:31:PHE:HZ	1:G:89:THR:HG1	1.57	0.52
1:C:154:ASP:O	1:C:160:THR:HA	2.10	0.52
1:A:8:LEU:HG	1:A:101:HIS:HB3	1.91	0.52
1:B:287:ILE:HA	1:D:64:ILE:HD12	1.89	0.52
1:I:287:ILE:HA	1:K:64:ILE:HD12	1.89	0.52
1:C:287:ILE:CG1	1:E:65:LEU:HG	2.36	0.52
1:G:287:ILE:HA	1:I:64:ILE:HD12	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:ILE:HG13	1:A:253:GLU:HG3	1.91	0.52
1:F:172:PRO:HA	1:F:175:ILE:HD12	1.91	0.52
1:C:6:THR:O	1:C:102:PRO:HD2	2.10	0.52
1:G:154:ASP:O	1:G:160:THR:HA	2.10	0.52
1:E:54:VAL:HG21	1:E:84:LYS:HD3	1.91	0.52
1:H:154:ASP:O	1:H:160:THR:HA	2.10	0.52
1:E:6:THR:O	1:E:102:PRO:HD2	2.10	0.52
1:K:8:LEU:HG	1:K:101:HIS:HB3	1.91	0.52
1:F:54:VAL:HG21	1:F:84:LYS:HD3	1.91	0.52
1:D:154:ASP:O	1:D:160:THR:HA	2.10	0.52
1:C:44:MET:HA	1:C:47:MET:HG2	1.92	0.52
1:J:192:ILE:HG13	1:J:253:GLU:HG3	1.91	0.52
1:F:124:PHE:CZ	1:F:132:MET:HG3	2.44	0.52
1:I:237:GLU:OE2	1:I:251:GLY:HA3	2.10	0.52
1:J:154:ASP:O	1:J:160:THR:HA	2.10	0.52
1:G:97:ALA:HB3	1:G:100:GLU:HG2	1.91	0.52
1:E:237:GLU:OE2	1:E:251:GLY:HA3	2.10	0.52
1:H:6:THR:O	1:H:102:PRO:HD2	2.10	0.52
1:D:287:ILE:HA	1:F:64:ILE:HD12	1.89	0.52
1:B:34:ILE:HD12	1:B:67:LEU:HD22	1.91	0.52
1:C:192:ILE:HG13	1:C:253:GLU:HG3	1.90	0.52
1:K:172:PRO:HA	1:K:175:ILE:CD1	2.40	0.52
1:K:6:THR:O	1:K:102:PRO:HD2	2.10	0.52
1:E:97:ALA:HB3	1:E:100:GLU:HG2	1.91	0.52
1:I:154:ASP:O	1:I:160:THR:HA	2.10	0.52
1:K:44:MET:HA	1:K:47:MET:HG2	1.92	0.52
1:B:70:PRO:HG3	1:B:85:ILE:CD1	2.41	0.52
1:H:192:ILE:HG13	1:H:253:GLU:HG3	1.91	0.52
1:A:180:LEU:HD23	1:A:261:LEU:HA	1.92	0.52
1:H:219:VAL:HG21	1:H:312:ARG:HG2	1.91	0.52
1:I:124:PHE:CZ	1:I:132:MET:HG3	2.44	0.52
1:K:124:PHE:CZ	1:K:132:MET:HG3	2.44	0.52
1:F:154:ASP:O	1:F:160:THR:HA	2.10	0.52
1:C:8:LEU:HG	1:C:101:HIS:HB3	1.91	0.52
1:J:6:THR:O	1:J:102:PRO:HD2	2.10	0.52
1:H:237:GLU:OE2	1:H:251:GLY:HA3	2.10	0.52
1:F:6:THR:O	1:F:102:PRO:HD2	2.10	0.52
1:F:97:ALA:HB3	1:F:100:GLU:HG2	1.91	0.52
1:J:34:ILE:HD12	1:J:67:LEU:HD22	1.91	0.51
1:D:248:ILE:HD13	1:D:248:ILE:N	2.25	0.51
1:F:248:ILE:HD13	1:F:248:ILE:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:70:PRO:HG3	1:I:85:ILE:CD1	2.41	0.51
1:H:70:PRO:HG3	1:H:85:ILE:CD1	2.41	0.51
1:F:180:LEU:HD23	1:F:261:LEU:HA	1.92	0.51
1:K:117:GLU:HG2	1:K:367:PRO:HB2	1.92	0.51
1:B:154:ASP:O	1:B:160:THR:HA	2.10	0.51
1:H:172:PRO:HA	1:H:175:ILE:CD1	2.40	0.51
1:G:6:THR:O	1:G:102:PRO:HD2	2.10	0.51
1:J:237:GLU:OE2	1:J:251:GLY:HA3	2.10	0.51
1:B:6:THR:O	1:B:102:PRO:HD2	2.10	0.51
1:I:6:THR:O	1:I:102:PRO:HD2	2.10	0.51
1:D:44:MET:HA	1:D:47:MET:HG2	1.92	0.51
1:K:34:ILE:HD12	1:K:67:LEU:HD22	1.91	0.51
1:B:248:ILE:HD13	1:B:248:ILE:N	2.25	0.51
1:B:219:VAL:HG21	1:B:312:ARG:HG2	1.91	0.51
1:F:219:VAL:HG21	1:F:312:ARG:HG2	1.91	0.51
1:B:117:GLU:HG2	1:B:367:PRO:HB2	1.92	0.51
1:G:172:PRO:HA	1:G:175:ILE:CD1	2.40	0.51
1:J:172:PRO:HA	1:J:175:ILE:HD12	1.91	0.51
1:B:44:MET:HA	1:B:47:MET:HG2	1.92	0.51
1:I:8:LEU:HG	1:I:101:HIS:HB3	1.91	0.51
1:A:34:ILE:HD12	1:A:67:LEU:HD22	1.91	0.51
1:J:180:LEU:HD23	1:J:261:LEU:HA	1.92	0.51
1:C:180:LEU:HD23	1:C:261:LEU:HA	1.92	0.51
1:J:219:VAL:HG21	1:J:312:ARG:HG2	1.91	0.51
1:D:117:GLU:HG2	1:D:367:PRO:HB2	1.92	0.51
1:C:172:PRO:HA	1:C:175:ILE:CD1	2.40	0.51
1:C:54:VAL:HG21	1:C:84:LYS:HD3	1.91	0.51
1:I:97:ALA:HB3	1:I:100:GLU:HG2	1.92	0.51
1:F:237:GLU:OE2	1:F:251:GLY:HA3	2.10	0.51
1:H:54:VAL:HG21	1:H:84:LYS:HD3	1.91	0.51
1:D:268:GLY:HA3	1:E:40:HIS:HB3	1.93	0.51
1:F:268:GLY:HA3	1:G:40:HIS:HB3	1.93	0.51
1:K:97:ALA:HB3	1:K:100:GLU:HG2	1.91	0.51
1:C:237:GLU:OE2	1:C:251:GLY:HA3	2.10	0.51
1:F:287:ILE:HA	1:H:64:ILE:HD12	1.89	0.51
1:A:287:ILE:HA	1:C:64:ILE:HD12	1.89	0.51
1:D:34:ILE:HD12	1:D:67:LEU:HD22	1.91	0.51
1:C:70:PRO:HG3	1:C:85:ILE:CD1	2.41	0.51
1:I:117:GLU:HG2	1:I:367:PRO:HB2	1.92	0.51
1:I:172:PRO:HA	1:I:175:ILE:CD1	2.40	0.51
1:D:6:THR:O	1:D:102:PRO:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:268:GLY:HA3	1:C:40:HIS:HB3	1.93	0.51
1:A:54:VAL:HG21	1:A:84:LYS:HD3	1.91	0.51
1:A:97:ALA:HB3	1:A:100:GLU:HG2	1.91	0.51
1:H:248:ILE:N	1:H:248:ILE:HD13	2.25	0.51
1:A:70:PRO:HG3	1:A:85:ILE:CD1	2.41	0.51
1:D:70:PRO:HG3	1:D:85:ILE:CD1	2.40	0.51
1:F:117:GLU:HA	1:F:367:PRO:HG2	1.93	0.51
1:E:117:GLU:CB	1:E:367:PRO:HG2	2.41	0.51
1:G:117:GLU:HG2	1:G:367:PRO:HB2	1.92	0.51
1:D:172:PRO:HA	1:D:175:ILE:CD1	2.40	0.51
1:J:54:VAL:HG21	1:J:84:LYS:HD3	1.91	0.51
1:J:97:ALA:HB3	1:J:100:GLU:HG2	1.91	0.51
1:E:268:GLY:HA3	1:F:40:HIS:HB3	1.93	0.51
1:H:268:GLY:HA3	1:I:40:HIS:HB3	1.93	0.51
1:C:268:GLY:HA3	1:D:40:HIS:HB3	1.93	0.51
1:F:287:ILE:CG1	1:H:65:LEU:HG	2.36	0.51
1:E:34:ILE:HD12	1:E:67:LEU:HD22	1.91	0.51
1:K:70:PRO:HG3	1:K:85:ILE:CD1	2.41	0.51
1:H:180:LEU:HD23	1:H:261:LEU:HA	1.92	0.51
1:G:180:LEU:HD23	1:G:261:LEU:HA	1.92	0.51
1:D:219:VAL:HG21	1:D:312:ARG:HG2	1.91	0.51
1:F:117:GLU:HG2	1:F:367:PRO:HB2	1.92	0.51
1:C:117:GLU:HA	1:C:367:PRO:HG2	1.93	0.51
1:C:117:GLU:CB	1:C:367:PRO:HG2	2.41	0.51
1:D:117:GLU:HA	1:D:367:PRO:HG2	1.93	0.51
1:J:117:GLU:HA	1:J:367:PRO:HG2	1.93	0.51
1:C:97:ALA:HB3	1:C:100:GLU:HG2	1.91	0.51
1:G:237:GLU:OE2	1:G:251:GLY:HA3	2.10	0.51
1:G:8:LEU:HG	1:G:101:HIS:HB3	1.91	0.51
1:C:34:ILE:HD12	1:C:67:LEU:HD22	1.91	0.51
1:F:34:ILE:HD12	1:F:67:LEU:HD22	1.91	0.51
1:A:117:GLU:HA	1:A:367:PRO:HG2	1.93	0.51
1:A:117:GLU:HG2	1:A:367:PRO:HB2	1.92	0.51
1:C:117:GLU:HG2	1:C:367:PRO:HB2	1.92	0.51
1:G:117:GLU:CB	1:G:367:PRO:HG2	2.41	0.51
1:H:97:ALA:HB3	1:H:100:GLU:HG2	1.91	0.51
1:E:8:LEU:HG	1:E:101:HIS:HB3	1.91	0.51
1:A:268:GLY:HA3	1:B:40:HIS:HB3	1.93	0.51
1:G:34:ILE:HD12	1:G:67:LEU:HD22	1.91	0.51
1:H:34:ILE:HD12	1:H:67:LEU:HD22	1.91	0.51
1:F:70:PRO:HG3	1:F:85:ILE:CD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:GLU:CB	1:A:367:PRO:HG2	2.41	0.51
1:H:117:GLU:HG2	1:H:367:PRO:HB2	1.92	0.51
1:K:117:GLU:HA	1:K:367:PRO:HG2	1.93	0.51
1:A:237:GLU:OE2	1:A:251:GLY:HA3	2.10	0.51
1:G:268:GLY:HA3	1:H:40:HIS:HB3	1.93	0.51
1:H:287:ILE:HA	1:J:64:ILE:HD12	1.89	0.51
1:I:34:ILE:HD12	1:I:67:LEU:HD22	1.91	0.51
1:G:70:PRO:HG3	1:G:85:ILE:CD1	2.41	0.51
1:E:117:GLU:HA	1:E:367:PRO:HG2	1.93	0.51
1:I:117:GLU:HA	1:I:367:PRO:HG2	1.93	0.51
1:B:117:GLU:HA	1:B:367:PRO:HG2	1.93	0.51
1:D:237:GLU:OE2	1:D:251:GLY:HA3	2.10	0.51
1:J:268:GLY:HA3	1:K:40:HIS:HB3	1.93	0.51
1:K:248:ILE:HD13	1:K:248:ILE:N	2.25	0.51
1:J:70:PRO:HG3	1:J:85:ILE:CD1	2.41	0.51
1:H:117:GLU:HA	1:H:367:PRO:HG2	1.93	0.51
1:J:117:GLU:HG2	1:J:367:PRO:HB2	1.92	0.51
1:I:268:GLY:HA3	1:J:40:HIS:HB3	1.93	0.51
1:B:180:LEU:HD23	1:B:261:LEU:HA	1.92	0.50
1:E:117:GLU:HG2	1:E:367:PRO:HB2	1.92	0.50
1:G:117:GLU:HA	1:G:367:PRO:HG2	1.93	0.50
1:J:117:GLU:CB	1:J:367:PRO:HG2	2.41	0.50
1:H:172:PRO:HA	1:H:175:ILE:HD12	1.91	0.50
1:B:237:GLU:OE2	1:B:251:GLY:HA3	2.10	0.50
1:H:31:PHE:HZ	1:H:89:THR:HG1	1.58	0.50
1:D:143:TYR:CE2	1:D:346:LEU:HD22	2.46	0.50
1:E:70:PRO:HG3	1:E:85:ILE:CD1	2.41	0.50
1:G:196:ARG:HH21	1:G:252:ASN:ND2	2.10	0.50
1:A:196:ARG:HH21	1:A:252:ASN:ND2	2.10	0.50
1:D:180:LEU:HD23	1:D:261:LEU:HA	1.92	0.50
1:I:117:GLU:CB	1:I:367:PRO:HG2	2.41	0.50
1:K:237:GLU:OE2	1:K:251:GLY:HA3	2.10	0.50
1:A:287:ILE:CG1	1:C:65:LEU:HG	2.35	0.50
1:B:143:TYR:CE2	1:B:346:LEU:HD22	2.47	0.50
1:I:248:ILE:HD13	1:I:248:ILE:N	2.25	0.50
1:H:196:ARG:HH21	1:H:252:ASN:ND2	2.10	0.50
1:K:180:LEU:HD23	1:K:261:LEU:HA	1.92	0.50
1:J:196:ARG:HH21	1:J:252:ASN:ND2	2.10	0.50
1:A:267:ILE:HD11	1:A:269:MET:SD	2.52	0.50
1:I:262:PHE:O	1:I:273:GLY:HA3	2.12	0.50
1:C:287:ILE:HA	1:E:64:ILE:HD12	1.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:286:ASP:CB	1:F:46:GLY:O	2.60	0.50
1:F:143:TYR:CE2	1:F:346:LEU:HD22	2.46	0.50
1:C:196:ARG:HH21	1:C:252:ASN:ND2	2.10	0.50
1:D:267:ILE:HD11	1:D:269:MET:SD	2.52	0.50
1:F:117:GLU:CB	1:F:367:PRO:HG2	2.41	0.50
1:K:117:GLU:CB	1:K:367:PRO:HG2	2.41	0.50
1:J:282:ILE:HG21	1:J:294:TYR:CE2	2.47	0.50
1:D:295:ALA:O	1:D:330:ILE:HD11	2.12	0.50
1:I:282:ILE:HG21	1:I:294:TYR:CE2	2.47	0.50
1:E:286:ASP:CB	1:G:46:GLY:O	2.60	0.50
1:C:286:ASP:CB	1:E:46:GLY:O	2.60	0.50
1:J:143:TYR:CE2	1:J:346:LEU:HD22	2.46	0.50
1:I:196:ARG:HH21	1:I:252:ASN:ND2	2.10	0.50
1:K:267:ILE:HD11	1:K:269:MET:SD	2.52	0.50
1:F:267:ILE:HD11	1:F:269:MET:SD	2.52	0.50
1:E:180:LEU:HD23	1:E:261:LEU:HA	1.92	0.50
1:E:267:ILE:HD11	1:E:269:MET:SD	2.52	0.50
1:H:117:GLU:CB	1:H:367:PRO:HG2	2.41	0.50
1:K:262:PHE:O	1:K:273:GLY:HA3	2.12	0.50
1:F:295:ALA:O	1:F:330:ILE:HD11	2.12	0.50
1:F:290:ARG:CD	1:H:64:ILE:HD13	2.38	0.50
1:B:286:ASP:CB	1:D:46:GLY:O	2.60	0.50
1:H:286:ASP:CB	1:J:46:GLY:O	2.60	0.50
1:H:143:TYR:CE2	1:H:346:LEU:HD22	2.47	0.50
1:K:143:TYR:CE2	1:K:346:LEU:HD22	2.46	0.50
1:A:143:TYR:CE2	1:A:346:LEU:HD22	2.46	0.50
1:G:248:ILE:N	1:G:248:ILE:HD13	2.25	0.50
1:E:196:ARG:HH21	1:E:252:ASN:ND2	2.10	0.50
1:H:267:ILE:HD11	1:H:269:MET:SD	2.52	0.50
1:J:267:ILE:HD11	1:J:269:MET:SD	2.52	0.50
1:C:267:ILE:HD11	1:C:269:MET:SD	2.52	0.50
1:J:122:ILE:O	1:J:126:THR:HB	2.12	0.50
1:C:262:PHE:O	1:C:273:GLY:HA3	2.12	0.50
1:C:143:TYR:CE2	1:C:346:LEU:HD22	2.46	0.50
1:J:248:ILE:N	1:J:248:ILE:HD13	2.25	0.50
1:F:196:ARG:HH21	1:F:252:ASN:ND2	2.10	0.50
1:I:267:ILE:HD11	1:I:269:MET:SD	2.52	0.50
1:E:262:PHE:O	1:E:273:GLY:HA3	2.12	0.50
1:F:122:ILE:O	1:F:126:THR:HB	2.12	0.50
1:K:295:ALA:O	1:K:330:ILE:HD11	2.12	0.50
1:F:282:ILE:HG21	1:F:294:TYR:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:143:TYR:CE2	1:E:346:LEU:HD22	2.46	0.50
1:F:370:VAL:HG23	1:F:374:CYS:SG	2.52	0.50
1:B:267:ILE:HD11	1:B:269:MET:SD	2.52	0.50
1:B:117:GLU:CB	1:B:367:PRO:HG2	2.41	0.50
1:G:262:PHE:O	1:G:273:GLY:HA3	2.12	0.50
1:A:122:ILE:O	1:A:126:THR:HB	2.12	0.50
1:E:295:ALA:O	1:E:330:ILE:HD11	2.12	0.50
1:B:295:ALA:O	1:B:330:ILE:HD11	2.12	0.50
1:I:295:ALA:O	1:I:330:ILE:HD11	2.12	0.50
1:G:282:ILE:HG21	1:G:294:TYR:CE2	2.47	0.49
1:G:286:ASP:CB	1:I:46:GLY:O	2.60	0.49
1:A:286:ASP:CB	1:C:46:GLY:O	2.60	0.49
1:G:143:TYR:CE2	1:G:346:LEU:HD22	2.46	0.49
1:K:196:ARG:HH21	1:K:252:ASN:ND2	2.10	0.49
1:B:122:ILE:O	1:B:126:THR:HB	2.12	0.49
1:I:31:PHE:HZ	1:I:89:THR:HG1	1.59	0.49
1:G:295:ALA:O	1:G:330:ILE:HD11	2.12	0.49
1:H:287:ILE:CG1	1:J:65:LEU:HG	2.35	0.49
1:E:248:ILE:N	1:E:248:ILE:HD13	2.25	0.49
1:H:370:VAL:HG23	1:H:374:CYS:SG	2.52	0.49
1:C:370:VAL:HG23	1:C:374:CYS:SG	2.52	0.49
1:I:180:LEU:HD23	1:I:261:LEU:HA	1.92	0.49
1:K:282:ILE:HG21	1:K:294:TYR:CE2	2.47	0.49
1:H:295:ALA:O	1:H:330:ILE:HD11	2.12	0.49
1:C:295:ALA:O	1:C:330:ILE:HD11	2.12	0.49
1:I:143:TYR:CE2	1:I:346:LEU:HD22	2.46	0.49
1:A:370:VAL:HG23	1:A:374:CYS:SG	2.52	0.49
1:F:286:ASP:CB	1:H:46:GLY:O	2.60	0.49
1:E:370:VAL:HG23	1:E:374:CYS:SG	2.52	0.49
1:D:117:GLU:CB	1:D:367:PRO:HG2	2.41	0.49
1:D:262:PHE:O	1:D:273:GLY:HA3	2.12	0.49
1:A:282:ILE:HG21	1:A:294:TYR:CE2	2.47	0.49
1:C:248:ILE:N	1:C:248:ILE:HD13	2.25	0.49
1:K:208:ILE:O	1:K:212:ILE:HG13	2.13	0.49
1:K:370:VAL:HG23	1:K:374:CYS:SG	2.52	0.49
1:D:370:VAL:HG23	1:D:374:CYS:SG	2.53	0.49
1:J:370:VAL:HG23	1:J:374:CYS:SG	2.52	0.49
1:K:190:MET:SD	1:K:206:ARG:HG3	2.53	0.49
1:F:262:PHE:O	1:F:273:GLY:HA3	2.12	0.49
1:E:190:MET:SD	1:E:206:ARG:HG3	2.53	0.49
1:A:262:PHE:O	1:A:273:GLY:HA3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:190:MET:SD	1:G:206:ARG:HG3	2.53	0.49
1:A:190:MET:SD	1:A:206:ARG:HG3	2.53	0.49
1:B:282:ILE:HG21	1:B:294:TYR:CE2	2.47	0.49
1:B:208:ILE:O	1:B:212:ILE:HG13	2.13	0.49
1:G:208:ILE:O	1:G:212:ILE:HG13	2.13	0.49
1:D:196:ARG:HH21	1:D:252:ASN:ND2	2.10	0.49
1:H:262:PHE:O	1:H:273:GLY:HA3	2.12	0.49
1:K:122:ILE:O	1:K:126:THR:HB	2.12	0.49
1:C:282:ILE:O	1:C:285:CYS:HB2	2.13	0.49
1:H:282:ILE:HG21	1:H:294:TYR:CE2	2.47	0.49
1:E:282:ILE:HG21	1:E:294:TYR:CE2	2.47	0.49
1:A:248:ILE:N	1:A:248:ILE:HD13	2.25	0.49
1:G:370:VAL:HG23	1:G:374:CYS:SG	2.52	0.49
1:B:196:ARG:HH21	1:B:252:ASN:ND2	2.10	0.49
1:H:122:ILE:O	1:H:126:THR:HB	2.12	0.49
1:J:262:PHE:O	1:J:273:GLY:HA3	2.12	0.49
1:I:282:ILE:O	1:I:285:CYS:HB2	2.13	0.49
1:D:143:TYR:HB2	1:D:342:GLY:CA	2.43	0.49
1:B:370:VAL:HG23	1:B:374:CYS:SG	2.52	0.49
1:A:295:ALA:O	1:A:330:ILE:HD11	2.12	0.49
1:I:122:ILE:O	1:I:126:THR:HB	2.12	0.49
1:D:122:ILE:O	1:D:126:THR:HB	2.12	0.49
1:B:262:PHE:O	1:B:273:GLY:HA3	2.12	0.49
1:D:173:HIS:CE1	1:F:45:VAL:HG21	2.48	0.49
1:A:173:HIS:CE1	1:C:45:VAL:HG21	2.48	0.49
1:D:282:ILE:HG21	1:D:294:TYR:CE2	2.47	0.49
1:A:282:ILE:O	1:A:285:CYS:HB2	2.13	0.49
1:E:282:ILE:O	1:E:285:CYS:HB2	2.13	0.49
1:E:143:TYR:HB2	1:E:342:GLY:CA	2.43	0.49
1:G:17:VAL:CG2	1:G:33:SER:HB2	2.43	0.49
1:D:17:VAL:CG2	1:D:33:SER:HB2	2.43	0.49
1:G:267:ILE:HD11	1:G:269:MET:SD	2.52	0.49
1:D:124:PHE:CD1	1:D:359:LYS:HD3	2.48	0.49
1:J:282:ILE:O	1:J:285:CYS:HB2	2.13	0.49
1:I:190:MET:SD	1:I:206:ARG:HG3	2.53	0.49
1:I:286:ASP:CB	1:K:46:GLY:O	2.60	0.49
1:H:143:TYR:HB2	1:H:342:GLY:CA	2.43	0.49
1:F:143:TYR:HB2	1:F:342:GLY:CA	2.43	0.49
1:C:143:TYR:HB2	1:C:342:GLY:CA	2.43	0.49
1:J:143:TYR:HB2	1:J:342:GLY:CA	2.43	0.49
1:D:208:ILE:O	1:D:212:ILE:HG13	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:17:VAL:CG2	1:I:33:SER:HB2	2.43	0.49
1:B:17:VAL:CG2	1:B:33:SER:HB2	2.43	0.49
1:F:17:VAL:CG2	1:F:33:SER:HB2	2.43	0.49
1:H:124:PHE:CD1	1:H:359:LYS:HD3	2.48	0.49
1:B:124:PHE:CD1	1:B:359:LYS:HD3	2.48	0.49
1:G:223:PHE:CE1	1:G:259:GLU:HG2	2.48	0.49
1:I:141:SER:OG	1:I:339:VAL:HG22	2.13	0.49
1:E:122:ILE:O	1:E:126:THR:HB	2.12	0.49
1:I:223:PHE:CE1	1:I:259:GLU:HG2	2.48	0.49
1:J:295:ALA:O	1:J:330:ILE:HD11	2.12	0.49
1:K:141:SER:OG	1:K:339:VAL:HG22	2.13	0.49
1:B:173:HIS:CE1	1:D:45:VAL:HG21	2.48	0.48
1:B:143:TYR:HB2	1:B:342:GLY:CA	2.43	0.48
1:G:143:TYR:HB2	1:G:342:GLY:CA	2.43	0.48
1:H:17:VAL:CG2	1:H:33:SER:HB2	2.43	0.48
1:J:124:PHE:CD1	1:J:359:LYS:HD3	2.48	0.48
1:F:124:PHE:CD1	1:F:359:LYS:HD3	2.48	0.48
1:B:223:PHE:CE1	1:B:259:GLU:HG2	2.48	0.48
1:K:223:PHE:CE1	1:K:259:GLU:HG2	2.48	0.48
1:E:223:PHE:CE1	1:E:259:GLU:HG2	2.48	0.48
1:C:173:HIS:CE1	1:E:45:VAL:HG21	2.48	0.48
1:F:173:HIS:CE1	1:H:45:VAL:HG21	2.48	0.48
1:I:143:TYR:HB2	1:I:342:GLY:CA	2.43	0.48
1:E:208:ILE:O	1:E:212:ILE:HG13	2.13	0.48
1:I:370:VAL:HG23	1:I:374:CYS:SG	2.52	0.48
1:A:260:THR:HG21	1:A:267:ILE:CG2	2.43	0.48
1:G:124:PHE:CD1	1:G:359:LYS:HD3	2.48	0.48
1:K:124:PHE:CD1	1:K:359:LYS:HD3	2.48	0.48
1:H:141:SER:OG	1:H:339:VAL:HG22	2.13	0.48
1:C:141:SER:OG	1:C:339:VAL:HG22	2.13	0.48
1:F:141:SER:OG	1:F:339:VAL:HG22	2.13	0.48
1:B:36:GLY:O	1:B:52:SER:HB2	2.14	0.48
1:E:173:HIS:CE1	1:G:45:VAL:HG21	2.48	0.48
1:H:282:ILE:O	1:H:285:CYS:HB2	2.13	0.48
1:G:282:ILE:O	1:G:285:CYS:HB2	2.13	0.48
1:K:17:VAL:CG2	1:K:33:SER:HB2	2.43	0.48
1:G:193:LEU:HD13	1:G:200:PHE:CE2	2.49	0.48
1:E:124:PHE:CD1	1:E:359:LYS:HD3	2.48	0.48
1:A:124:PHE:CD1	1:A:359:LYS:HD3	2.48	0.48
1:C:124:PHE:CD1	1:C:359:LYS:HD3	2.48	0.48
1:I:124:PHE:CD1	1:I:359:LYS:HD3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:36:GLY:O	1:E:52:SER:HB2	2.14	0.48
1:A:141:SER:OG	1:A:339:VAL:HG22	2.13	0.48
1:B:141:SER:OG	1:B:339:VAL:HG22	2.13	0.48
1:C:36:GLY:O	1:C:52:SER:HB2	2.14	0.48
1:C:282:ILE:HG21	1:C:294:TYR:CE2	2.47	0.48
1:A:143:TYR:HB2	1:A:342:GLY:CA	2.43	0.48
1:F:208:ILE:O	1:F:212:ILE:HG13	2.13	0.48
1:A:208:ILE:O	1:A:212:ILE:HG13	2.13	0.48
1:E:193:LEU:HD13	1:E:200:PHE:CE2	2.49	0.48
1:A:193:LEU:HD13	1:A:200:PHE:CE2	2.49	0.48
1:E:260:THR:HG21	1:E:267:ILE:CG2	2.43	0.48
1:C:260:THR:HG21	1:C:267:ILE:CG2	2.43	0.48
1:G:122:ILE:O	1:G:126:THR:HB	2.12	0.48
1:A:36:GLY:O	1:A:52:SER:HB2	2.14	0.48
1:D:141:SER:OG	1:D:339:VAL:HG22	2.13	0.48
1:H:190:MET:SD	1:H:206:ARG:HG3	2.53	0.48
1:D:36:GLY:O	1:D:52:SER:HB2	2.14	0.48
1:C:208:ILE:O	1:C:212:ILE:HG13	2.13	0.48
1:E:17:VAL:CG2	1:E:33:SER:HB2	2.43	0.48
1:G:260:THR:HG21	1:G:267:ILE:CG2	2.43	0.48
1:G:141:SER:OG	1:G:339:VAL:HG22	2.13	0.48
1:F:36:GLY:O	1:F:52:SER:HB2	2.14	0.48
1:H:173:HIS:CE1	1:J:45:VAL:HG21	2.48	0.48
1:D:282:ILE:O	1:D:285:CYS:HB2	2.13	0.48
1:B:282:ILE:O	1:B:285:CYS:HB2	2.13	0.48
1:K:143:TYR:HB2	1:K:342:GLY:CA	2.43	0.48
1:I:208:ILE:O	1:I:212:ILE:HG13	2.13	0.48
1:I:193:LEU:HD13	1:I:200:PHE:CE2	2.49	0.48
1:J:193:LEU:HD13	1:J:200:PHE:CE2	2.49	0.48
1:B:216:LEU:HD11	1:B:240:TYR:HB2	1.95	0.48
1:C:122:ILE:O	1:C:126:THR:HB	2.12	0.48
1:C:190:MET:SD	1:C:206:ARG:HG3	2.53	0.48
1:C:223:PHE:CE1	1:C:259:GLU:HG2	2.48	0.48
1:G:173:HIS:CE1	1:I:45:VAL:HG21	2.48	0.48
1:K:139:VAL:HG11	1:K:375:PHE:CE2	2.49	0.48
1:J:17:VAL:CG2	1:J:33:SER:HB2	2.43	0.48
1:B:189:LEU:HD11	1:B:253:GLU:HB3	1.95	0.48
1:C:193:LEU:HD13	1:C:200:PHE:CE2	2.49	0.48
1:J:260:THR:HG21	1:J:267:ILE:CG2	2.43	0.48
1:H:36:GLY:O	1:H:52:SER:HB2	2.14	0.48
1:G:36:GLY:O	1:G:52:SER:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:190:MET:SD	1:B:206:ARG:HG3	2.53	0.48
1:K:216:LEU:HD11	1:K:240:TYR:HB2	1.95	0.48
1:F:282:ILE:O	1:F:285:CYS:HB2	2.13	0.48
1:D:216:LEU:HD11	1:D:240:TYR:HB2	1.95	0.48
1:D:223:PHE:CE1	1:D:259:GLU:HG2	2.49	0.48
1:C:216:LEU:HD11	1:C:240:TYR:HB2	1.95	0.48
1:I:139:VAL:HG11	1:I:375:PHE:CE2	2.49	0.48
1:J:208:ILE:O	1:J:212:ILE:HG13	2.12	0.48
1:H:193:LEU:HD13	1:H:200:PHE:CE2	2.49	0.48
1:H:113:LYS:HD3	1:H:113:LYS:N	2.29	0.48
1:K:282:ILE:O	1:K:285:CYS:HB2	2.13	0.48
1:G:90:PHE:HA	1:G:94:LEU:HD12	1.96	0.48
1:H:223:PHE:CE1	1:H:259:GLU:HG2	2.48	0.48
1:J:36:GLY:O	1:J:52:SER:HB2	2.14	0.48
1:I:207:GLU:O	1:I:210:ARG:HB3	2.14	0.48
1:I:36:GLY:O	1:I:52:SER:HB2	2.14	0.48
1:D:139:VAL:HG11	1:D:375:PHE:CE2	2.49	0.48
1:F:139:VAL:HG11	1:F:375:PHE:CE2	2.49	0.48
1:H:208:ILE:O	1:H:212:ILE:HG13	2.13	0.48
1:C:17:VAL:CG2	1:C:33:SER:HB2	2.43	0.48
1:A:189:LEU:HD11	1:A:253:GLU:HB3	1.95	0.48
1:C:189:LEU:HD11	1:C:253:GLU:HB3	1.95	0.48
1:A:90:PHE:HA	1:A:94:LEU:HD12	1.96	0.48
1:J:216:LEU:HD11	1:J:240:TYR:HB2	1.95	0.48
1:J:223:PHE:CE1	1:J:259:GLU:HG2	2.48	0.48
1:E:216:LEU:HD11	1:E:240:TYR:HB2	1.95	0.48
1:F:190:MET:SD	1:F:206:ARG:HG3	2.53	0.48
1:K:90:PHE:HA	1:K:94:LEU:HD12	1.96	0.48
1:E:139:VAL:HG11	1:E:375:PHE:CE2	2.49	0.47
1:B:139:VAL:HG11	1:B:375:PHE:CE2	2.49	0.47
1:G:139:VAL:HG11	1:G:375:PHE:CE2	2.49	0.47
1:A:17:VAL:CG2	1:A:33:SER:HB2	2.43	0.47
1:E:189:LEU:HD11	1:E:253:GLU:HB3	1.95	0.47
1:C:196:ARG:HH22	1:C:231:ALA:HA	1.79	0.47
1:F:260:THR:HG21	1:F:267:ILE:CG2	2.43	0.47
1:F:90:PHE:HA	1:F:94:LEU:HD12	1.96	0.47
1:K:36:GLY:O	1:K:52:SER:HB2	2.14	0.47
1:D:190:MET:SD	1:D:206:ARG:HG3	2.53	0.47
1:B:207:GLU:O	1:B:210:ARG:HB3	2.14	0.47
1:I:173:HIS:CE1	1:K:45:VAL:HG21	2.48	0.47
1:H:139:VAL:HG11	1:H:375:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:189:LEU:HD11	1:G:253:GLU:HB3	1.95	0.47
1:B:260:THR:HG21	1:B:267:ILE:CG2	2.43	0.47
1:E:113:LYS:HD3	1:E:113:LYS:N	2.29	0.47
1:F:223:PHE:CE1	1:F:259:GLU:HG2	2.48	0.47
1:J:190:MET:SD	1:J:206:ARG:HG3	2.53	0.47
1:D:207:GLU:O	1:D:210:ARG:HB3	2.14	0.47
1:D:90:PHE:HA	1:D:94:LEU:HD12	1.96	0.47
1:E:207:GLU:O	1:E:210:ARG:HB3	2.14	0.47
1:J:139:VAL:HG11	1:J:375:PHE:CE2	2.49	0.47
1:F:193:LEU:HD13	1:F:200:PHE:CE2	2.49	0.47
1:H:260:THR:HG21	1:H:267:ILE:CG2	2.43	0.47
1:I:260:THR:HG21	1:I:267:ILE:CG2	2.43	0.47
1:D:260:THR:HG21	1:D:267:ILE:CG2	2.43	0.47
1:G:113:LYS:N	1:G:113:LYS:HD3	2.29	0.47
1:I:216:LEU:HD11	1:I:240:TYR:HB2	1.95	0.47
1:F:216:LEU:HD11	1:F:240:TYR:HB2	1.95	0.47
1:B:193:LEU:HD13	1:B:200:PHE:CE2	2.49	0.47
1:I:189:LEU:HD11	1:I:253:GLU:HB3	1.95	0.47
1:K:260:THR:HG21	1:K:267:ILE:CG2	2.43	0.47
1:K:113:LYS:HD3	1:K:113:LYS:N	2.29	0.47
1:J:113:LYS:N	1:J:113:LYS:HD3	2.29	0.47
1:B:113:LYS:HD3	1:B:113:LYS:N	2.29	0.47
1:C:207:GLU:O	1:C:210:ARG:HB3	2.14	0.47
1:C:90:PHE:HA	1:C:94:LEU:HD12	1.96	0.47
1:C:139:VAL:HG11	1:C:375:PHE:CE2	2.49	0.47
1:B:90:PHE:HA	1:B:94:LEU:HD12	1.96	0.47
1:A:216:LEU:HD11	1:A:240:TYR:HB2	1.95	0.47
1:J:141:SER:OG	1:J:339:VAL:HG22	2.13	0.47
1:D:290:ARG:CD	1:F:64:ILE:HD13	2.38	0.47
1:D:193:LEU:HD13	1:D:200:PHE:CE2	2.49	0.47
1:D:189:LEU:HD11	1:D:253:GLU:HB3	1.95	0.47
1:K:189:LEU:HD11	1:K:253:GLU:HB3	1.95	0.47
1:C:181:ALA:O	1:C:185:LEU:HG	2.15	0.47
1:J:117:GLU:CA	1:J:367:PRO:HG2	2.45	0.47
1:A:223:PHE:CE1	1:A:259:GLU:HG2	2.48	0.47
1:J:207:GLU:O	1:J:210:ARG:HB3	2.14	0.47
1:J:90:PHE:HA	1:J:94:LEU:HD12	1.96	0.47
1:K:207:GLU:O	1:K:210:ARG:HB3	2.14	0.47
1:E:90:PHE:HA	1:E:94:LEU:HD12	1.96	0.47
1:E:141:SER:OG	1:E:339:VAL:HG22	2.13	0.47
1:C:287:ILE:HB	1:E:64:ILE:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:ILE:HB	1:C:64:ILE:HG22	1.97	0.47
1:J:35:VAL:O	1:J:67:LEU:HA	2.15	0.47
1:H:35:VAL:O	1:H:67:LEU:HA	2.15	0.47
1:F:116:ARG:CD	1:F:370:VAL:HG11	2.43	0.47
1:G:181:ALA:O	1:G:185:LEU:HG	2.15	0.47
1:B:181:ALA:O	1:B:185:LEU:HG	2.15	0.47
1:F:181:ALA:O	1:F:185:LEU:HG	2.15	0.47
1:K:193:LEU:HD13	1:K:200:PHE:CE2	2.49	0.47
1:I:181:ALA:O	1:I:185:LEU:HG	2.15	0.47
1:H:189:LEU:HD11	1:H:253:GLU:HB3	1.95	0.47
1:E:181:ALA:O	1:E:185:LEU:HG	2.15	0.47
1:A:181:ALA:O	1:A:185:LEU:HG	2.15	0.47
1:F:113:LYS:N	1:F:113:LYS:HD3	2.29	0.47
1:A:113:LYS:N	1:A:113:LYS:HD3	2.29	0.47
1:C:113:LYS:HD3	1:C:113:LYS:N	2.29	0.47
1:D:113:LYS:HD3	1:D:113:LYS:N	2.29	0.47
1:I:117:GLU:CA	1:I:367:PRO:HG2	2.45	0.47
1:B:216:LEU:O	1:B:254:ARG:HG2	2.15	0.47
1:D:216:LEU:O	1:D:254:ARG:HG2	2.15	0.47
1:F:207:GLU:O	1:F:210:ARG:HB3	2.14	0.47
1:D:364:GLU:HG3	1:D:365:ALA:N	2.30	0.47
1:B:287:ILE:HD11	1:D:61:LYS:O	2.15	0.47
1:F:35:VAL:O	1:F:67:LEU:HA	2.15	0.47
1:A:139:VAL:HG11	1:A:375:PHE:CE2	2.49	0.47
1:B:116:ARG:CD	1:B:370:VAL:HG11	2.43	0.47
1:D:181:ALA:O	1:D:185:LEU:HG	2.15	0.47
1:K:181:ALA:O	1:K:185:LEU:HG	2.15	0.47
1:A:196:ARG:HH22	1:A:231:ALA:HA	1.79	0.47
1:C:117:GLU:CA	1:C:367:PRO:HG2	2.45	0.47
1:D:117:GLU:CA	1:D:367:PRO:HG2	2.45	0.47
1:G:117:GLU:CA	1:G:367:PRO:HG2	2.45	0.47
1:B:117:GLU:CA	1:B:367:PRO:HG2	2.45	0.47
1:G:216:LEU:HD11	1:G:240:TYR:HB2	1.95	0.47
1:H:216:LEU:O	1:H:254:ARG:HG2	2.15	0.47
1:I:287:ILE:HD11	1:K:61:LYS:O	2.15	0.47
1:D:35:VAL:O	1:D:67:LEU:HA	2.15	0.47
1:D:116:ARG:CD	1:D:370:VAL:HG11	2.43	0.47
1:F:189:LEU:HD11	1:F:253:GLU:HB3	1.95	0.47
1:A:117:GLU:CA	1:A:367:PRO:HG2	2.45	0.47
1:I:113:LYS:HD3	1:I:113:LYS:N	2.29	0.47
1:H:216:LEU:HD11	1:H:240:TYR:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:287:ILE:HD11	1:F:61:LYS:O	2.15	0.47
1:G:38:PRO:HG3	1:G:44:MET:HG2	1.97	0.47
1:K:38:PRO:HG3	1:K:44:MET:HG2	1.97	0.47
1:H:181:ALA:O	1:H:185:LEU:HG	2.15	0.47
1:J:181:ALA:O	1:J:185:LEU:HG	2.15	0.47
1:A:190:MET:HG2	1:A:209:VAL:HG21	1.97	0.47
1:C:216:LEU:O	1:C:254:ARG:HG2	2.15	0.47
1:F:216:LEU:O	1:F:254:ARG:HG2	2.15	0.47
1:G:216:LEU:O	1:G:254:ARG:HG2	2.15	0.47
1:H:221:LEU:O	1:H:315:LYS:HG2	2.15	0.47
1:E:287:ILE:HD11	1:G:61:LYS:O	2.15	0.46
1:A:35:VAL:O	1:A:67:LEU:HA	2.15	0.46
1:B:35:VAL:O	1:B:67:LEU:HA	2.15	0.46
1:D:196:ARG:HH22	1:D:231:ALA:HA	1.79	0.46
1:H:117:GLU:CA	1:H:367:PRO:HG2	2.45	0.46
1:K:364:GLU:HG3	1:K:365:ALA:N	2.30	0.46
1:G:207:GLU:O	1:G:210:ARG:HB3	2.14	0.46
1:I:364:GLU:HG3	1:I:365:ALA:N	2.30	0.46
1:F:38:PRO:HG3	1:F:44:MET:HG2	1.98	0.46
1:E:169:TYR:HD2	1:E:375:PHE:HA	1.81	0.46
1:G:169:TYR:HD2	1:G:375:PHE:HA	1.81	0.46
1:J:189:LEU:HD11	1:J:253:GLU:HB3	1.95	0.46
1:J:190:MET:HG2	1:J:209:VAL:HG21	1.97	0.46
1:H:364:GLU:HG3	1:H:365:ALA:N	2.30	0.46
1:H:287:ILE:HD11	1:J:61:LYS:O	2.15	0.46
1:A:290:ARG:CD	1:C:64:ILE:HD13	2.38	0.46
1:C:35:VAL:O	1:C:67:LEU:HA	2.15	0.46
1:F:196:ARG:HH22	1:F:231:ALA:HA	1.79	0.46
1:H:190:MET:HG2	1:H:209:VAL:HG21	1.97	0.46
1:I:216:LEU:O	1:I:254:ARG:HG2	2.15	0.46
1:H:207:GLU:O	1:H:210:ARG:HB3	2.14	0.46
1:H:90:PHE:HA	1:H:94:LEU:HD12	1.96	0.46
1:J:221:LEU:O	1:J:315:LYS:HG2	2.15	0.46
1:K:221:LEU:O	1:K:315:LYS:HG2	2.15	0.46
1:A:221:LEU:O	1:A:315:LYS:HG2	2.15	0.46
1:A:287:ILE:HD11	1:C:61:LYS:O	2.15	0.46
1:B:286:ASP:O	1:B:289:ILE:HG12	2.16	0.46
1:D:38:PRO:HG3	1:D:44:MET:HG2	1.98	0.46
1:A:286:ASP:O	1:A:289:ILE:HG12	2.16	0.46
1:J:38:PRO:HG3	1:J:44:MET:HG2	1.97	0.46
1:E:190:MET:HG2	1:E:209:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:216:LEU:O	1:E:254:ARG:HG2	2.15	0.46
1:I:90:PHE:HA	1:I:94:LEU:HD12	1.96	0.46
1:H:263:GLN:O	1:H:266:PHE:HD1	1.99	0.46
1:F:221:LEU:O	1:F:315:LYS:HG2	2.15	0.46
1:K:35:VAL:O	1:K:67:LEU:HA	2.15	0.46
1:F:117:GLU:CA	1:F:367:PRO:HG2	2.45	0.46
1:K:263:GLN:O	1:K:266:PHE:HD1	1.99	0.46
1:I:221:LEU:O	1:I:315:LYS:HG2	2.15	0.46
1:A:207:GLU:O	1:A:210:ARG:HB3	2.14	0.46
1:G:364:GLU:HG3	1:G:365:ALA:N	2.30	0.46
1:E:173:HIS:CE1	1:G:45:VAL:CG1	2.85	0.46
1:K:39:ARG:HG2	1:K:64:ILE:O	2.16	0.46
1:C:287:ILE:HD11	1:E:61:LYS:O	2.15	0.46
1:E:286:ASP:O	1:E:289:ILE:HG12	2.16	0.46
1:G:286:ASP:O	1:G:289:ILE:HG12	2.16	0.46
1:H:116:ARG:CD	1:H:370:VAL:HG11	2.43	0.46
1:K:196:ARG:HH22	1:K:231:ALA:HA	1.79	0.46
1:G:196:ARG:HH22	1:G:231:ALA:HA	1.79	0.46
1:B:38:PRO:HG3	1:B:44:MET:HG2	1.98	0.46
1:C:190:MET:HG2	1:C:209:VAL:HG21	1.97	0.46
1:F:263:GLN:O	1:F:266:PHE:HD1	1.99	0.46
1:C:39:ARG:HG2	1:C:64:ILE:O	2.16	0.46
1:D:286:ASP:O	1:D:289:ILE:HG12	2.16	0.46
1:E:35:VAL:O	1:E:67:LEU:HA	2.15	0.46
1:J:116:ARG:CD	1:J:370:VAL:HG11	2.43	0.46
1:A:116:ARG:CD	1:A:370:VAL:HG11	2.43	0.46
1:K:286:ASP:O	1:K:289:ILE:HG12	2.16	0.46
1:K:117:GLU:CA	1:K:367:PRO:HG2	2.45	0.46
1:J:286:ASP:O	1:J:289:ILE:HG12	2.16	0.46
1:A:38:PRO:HG3	1:A:44:MET:HG2	1.97	0.46
1:K:216:LEU:O	1:K:254:ARG:HG2	2.15	0.46
1:I:263:GLN:O	1:I:266:PHE:HD1	1.99	0.46
1:F:287:ILE:HD11	1:H:61:LYS:O	2.15	0.46
1:E:39:ARG:HG2	1:E:64:ILE:O	2.16	0.46
1:G:39:ARG:HG2	1:G:64:ILE:O	2.16	0.46
1:E:38:PRO:HG3	1:E:44:MET:HG2	1.97	0.46
1:G:139:VAL:HA	1:G:165:ILE:HD13	1.98	0.46
1:B:39:ARG:HG2	1:B:64:ILE:O	2.16	0.46
1:E:117:GLU:CA	1:E:367:PRO:HG2	2.45	0.46
1:F:364:GLU:HG3	1:F:365:ALA:N	2.30	0.46
1:C:263:GLN:O	1:C:266:PHE:HD1	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:39:ARG:HG2	1:F:64:ILE:O	2.16	0.46
1:H:287:ILE:HB	1:J:64:ILE:HG22	1.97	0.46
1:F:250:ILE:CG1	1:F:253:GLU:HB2	2.46	0.46
1:A:39:ARG:HG2	1:A:64:ILE:O	2.16	0.46
1:J:216:LEU:O	1:J:254:ARG:HG2	2.15	0.46
1:E:263:GLN:O	1:E:266:PHE:HD1	1.99	0.46
1:B:263:GLN:O	1:B:266:PHE:HD1	1.99	0.46
1:G:221:LEU:O	1:G:315:LYS:HG2	2.15	0.46
1:C:286:ASP:O	1:C:289:ILE:HG12	2.16	0.46
1:H:286:ASP:O	1:H:289:ILE:HG12	2.16	0.46
1:G:35:VAL:O	1:G:67:LEU:HA	2.15	0.46
1:C:169:TYR:HD2	1:C:375:PHE:HA	1.80	0.46
1:E:208:ILE:HG21	1:E:248:ILE:HG21	1.98	0.46
1:H:169:TYR:HD2	1:H:375:PHE:HA	1.80	0.46
1:E:139:VAL:HA	1:E:165:ILE:HD13	1.98	0.46
1:I:250:ILE:CG1	1:I:253:GLU:HB2	2.46	0.46
1:B:196:ARG:HH22	1:B:231:ALA:HA	1.79	0.46
1:E:364:GLU:HG3	1:E:365:ALA:N	2.30	0.46
1:A:364:GLU:HG3	1:A:365:ALA:N	2.30	0.46
1:J:364:GLU:HG3	1:J:365:ALA:N	2.30	0.46
1:F:287:ILE:HB	1:H:64:ILE:HG22	1.97	0.45
1:I:208:ILE:HG21	1:I:248:ILE:HG21	1.98	0.45
1:C:116:ARG:CD	1:C:370:VAL:HG11	2.43	0.45
1:J:250:ILE:CG1	1:J:253:GLU:HB2	2.46	0.45
1:G:190:MET:HG2	1:G:209:VAL:HG21	1.97	0.45
1:F:190:MET:HG2	1:F:209:VAL:HG21	1.97	0.45
1:E:152:VAL:HA	1:E:298:VAL:O	2.16	0.45
1:A:263:GLN:O	1:A:266:PHE:HD1	1.99	0.45
1:B:364:GLU:HG3	1:B:365:ALA:N	2.30	0.45
1:H:39:ARG:HG2	1:H:64:ILE:O	2.16	0.45
1:D:287:ILE:HB	1:F:64:ILE:HG22	1.97	0.45
1:I:39:ARG:HG2	1:I:64:ILE:O	2.16	0.45
1:E:250:ILE:CG1	1:E:253:GLU:HB2	2.46	0.45
1:G:312:ARG:HH12	1:G:316:GLU:HG3	1.82	0.45
1:I:190:MET:HG2	1:I:209:VAL:HG21	1.97	0.45
1:B:221:LEU:O	1:B:315:LYS:HG2	2.15	0.45
1:G:263:GLN:O	1:G:266:PHE:HD1	1.99	0.45
1:J:263:GLN:O	1:J:266:PHE:HD1	1.99	0.45
1:G:287:ILE:HD11	1:I:61:LYS:O	2.15	0.45
1:C:38:PRO:HG3	1:C:44:MET:HG2	1.97	0.45
1:C:208:ILE:HG21	1:C:248:ILE:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:116:ARG:CD	1:E:370:VAL:HG11	2.43	0.45
1:F:189:LEU:HB2	1:F:257:CYS:SG	2.57	0.45
1:B:189:LEU:HB2	1:B:257:CYS:SG	2.57	0.45
1:D:250:ILE:CG1	1:D:253:GLU:HB2	2.46	0.45
1:K:250:ILE:CG1	1:K:253:GLU:HB2	2.46	0.45
1:B:152:VAL:HA	1:B:298:VAL:O	2.17	0.45
1:D:31:PHE:CE2	1:D:93:GLU:HG3	2.52	0.45
1:D:221:LEU:O	1:D:315:LYS:HG2	2.15	0.45
1:C:152:VAL:HA	1:C:298:VAL:O	2.17	0.45
1:I:38:PRO:HG3	1:I:44:MET:HG2	1.97	0.45
1:H:38:PRO:HG3	1:H:44:MET:HG2	1.97	0.45
1:G:208:ILE:HG21	1:G:248:ILE:HG21	1.98	0.45
1:K:208:ILE:HG21	1:K:248:ILE:HG21	1.98	0.45
1:K:142:LEU:HD22	1:K:165:ILE:HB	1.98	0.45
1:F:169:TYR:HD2	1:F:375:PHE:HA	1.81	0.45
1:A:70:PRO:HG3	1:A:85:ILE:HD12	1.99	0.45
1:K:70:PRO:HG3	1:K:85:ILE:HD12	1.99	0.45
1:E:312:ARG:HH12	1:E:316:GLU:HG3	1.82	0.45
1:B:31:PHE:CE2	1:B:93:GLU:HG3	2.52	0.45
1:K:289:ILE:O	1:K:293:LEU:HG	2.17	0.45
1:D:190:MET:HG2	1:D:209:VAL:HG21	1.97	0.45
1:A:216:LEU:O	1:A:254:ARG:HG2	2.15	0.45
1:C:221:LEU:O	1:C:315:LYS:HG2	2.15	0.45
1:G:366:GLY:O	1:G:369:ILE:HG22	2.17	0.45
1:J:152:VAL:HA	1:J:298:VAL:O	2.17	0.45
1:A:173:HIS:CE1	1:C:45:VAL:CG1	2.85	0.45
1:I:286:ASP:O	1:I:289:ILE:HG12	2.16	0.45
1:F:286:ASP:O	1:F:289:ILE:HG12	2.16	0.45
1:I:139:VAL:HA	1:I:165:ILE:HD13	1.98	0.45
1:B:139:VAL:HA	1:B:165:ILE:HD13	1.98	0.45
1:A:250:ILE:CG1	1:A:253:GLU:HB2	2.46	0.45
1:A:312:ARG:NH1	1:A:316:GLU:HG2	2.32	0.45
1:F:312:ARG:NH1	1:F:316:GLU:HG2	2.32	0.45
1:H:31:PHE:CE2	1:H:93:GLU:HG3	2.52	0.45
1:K:366:GLY:O	1:K:369:ILE:HG22	2.17	0.45
1:H:152:VAL:HA	1:H:298:VAL:O	2.16	0.45
1:G:152:VAL:HA	1:G:298:VAL:O	2.17	0.45
1:D:152:VAL:HA	1:D:298:VAL:O	2.17	0.45
1:D:366:GLY:O	1:D:369:ILE:HG22	2.17	0.45
1:B:287:ILE:HB	1:D:64:ILE:HG22	1.97	0.45
1:J:39:ARG:HG2	1:J:64:ILE:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:289:ILE:O	1:D:293:LEU:HG	2.17	0.45
1:H:70:PRO:HG3	1:H:85:ILE:HD12	1.99	0.45
1:F:242:LEU:CG	1:F:243:PRO:HD2	2.47	0.45
1:B:242:LEU:CG	1:B:243:PRO:HD2	2.47	0.45
1:D:242:LEU:CG	1:D:243:PRO:HD2	2.47	0.45
1:G:189:LEU:HB2	1:G:257:CYS:SG	2.57	0.45
1:J:189:LEU:HB2	1:J:257:CYS:SG	2.57	0.45
1:I:312:ARG:HH12	1:I:316:GLU:HG3	1.82	0.45
1:J:312:ARG:NH1	1:J:316:GLU:HG2	2.32	0.45
1:F:31:PHE:CE2	1:F:93:GLU:HG3	2.52	0.45
1:B:142:LEU:HD22	1:B:165:ILE:HB	1.98	0.45
1:A:208:ILE:HG21	1:A:248:ILE:HG21	1.98	0.45
1:I:70:PRO:HG3	1:I:85:ILE:HD12	1.99	0.45
1:C:70:PRO:HG3	1:C:85:ILE:HD12	1.99	0.45
1:E:70:PRO:HG3	1:E:85:ILE:HD12	1.99	0.45
1:G:116:ARG:CD	1:G:370:VAL:HG11	2.43	0.45
1:I:242:LEU:CG	1:I:243:PRO:HD2	2.47	0.45
1:A:189:LEU:HB2	1:A:257:CYS:SG	2.57	0.45
1:H:196:ARG:HH22	1:H:231:ALA:HA	1.79	0.45
1:J:196:ARG:HH22	1:J:231:ALA:HA	1.79	0.45
1:B:312:ARG:NH1	1:B:316:GLU:HG2	2.32	0.45
1:H:312:ARG:HH12	1:H:316:GLU:HG3	1.82	0.45
1:F:312:ARG:HH12	1:F:316:GLU:HG3	1.82	0.45
1:I:31:PHE:CE2	1:I:93:GLU:HG3	2.52	0.45
1:E:221:LEU:O	1:E:315:LYS:HG2	2.15	0.45
1:J:366:GLY:O	1:J:369:ILE:HG22	2.17	0.45
1:D:263:GLN:O	1:D:266:PHE:HD1	1.99	0.45
1:I:287:ILE:CA	1:K:64:ILE:HG21	2.47	0.45
1:H:287:ILE:CA	1:J:64:ILE:HG21	2.47	0.45
1:I:35:VAL:O	1:I:67:LEU:HA	2.15	0.45
1:I:142:LEU:HD22	1:I:165:ILE:HB	1.98	0.45
1:A:139:VAL:HA	1:A:165:ILE:HD13	1.98	0.45
1:J:139:VAL:HA	1:J:165:ILE:HD13	1.98	0.45
1:J:142:LEU:HD22	1:J:165:ILE:HB	1.98	0.45
1:G:70:PRO:HG3	1:G:85:ILE:HD12	1.99	0.45
1:F:70:PRO:HG3	1:F:85:ILE:HD12	1.99	0.45
1:K:116:ARG:CD	1:K:370:VAL:HG11	2.43	0.45
1:K:242:LEU:CG	1:K:243:PRO:HD2	2.47	0.45
1:B:250:ILE:CG1	1:B:253:GLU:HB2	2.46	0.45
1:K:189:LEU:HB2	1:K:257:CYS:SG	2.57	0.45
1:K:190:MET:HG2	1:K:209:VAL:HG21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:366:GLY:O	1:I:369:ILE:HG22	2.17	0.45
1:C:364:GLU:HG3	1:C:365:ALA:N	2.30	0.45
1:B:289:ILE:O	1:B:293:LEU:HG	2.17	0.45
1:H:139:VAL:HA	1:H:165:ILE:HD13	1.98	0.45
1:A:142:LEU:HD22	1:A:165:ILE:HB	1.98	0.45
1:H:242:LEU:CG	1:H:243:PRO:HD2	2.47	0.45
1:I:189:LEU:HB2	1:I:257:CYS:SG	2.57	0.45
1:H:189:LEU:HB2	1:H:257:CYS:SG	2.57	0.45
1:H:250:ILE:CG1	1:H:253:GLU:HB2	2.46	0.45
1:C:250:ILE:CG1	1:C:253:GLU:HB2	2.46	0.45
1:B:312:ARG:HH12	1:B:316:GLU:HG3	1.82	0.45
1:D:312:ARG:HH12	1:D:316:GLU:HG3	1.82	0.45
1:C:312:ARG:HH12	1:C:316:GLU:HG3	1.82	0.45
1:E:366:GLY:O	1:E:369:ILE:HG22	2.17	0.45
1:A:152:VAL:HA	1:A:298:VAL:O	2.17	0.45
1:K:31:PHE:CE2	1:K:93:GLU:HG3	2.52	0.45
1:H:366:GLY:O	1:H:369:ILE:HG22	2.17	0.45
1:I:152:VAL:HA	1:I:298:VAL:O	2.16	0.45
1:F:287:ILE:CA	1:H:64:ILE:HG21	2.47	0.45
1:J:70:PRO:HG3	1:J:85:ILE:HD12	1.99	0.45
1:A:242:LEU:CG	1:A:243:PRO:HD2	2.47	0.45
1:I:312:ARG:NH1	1:I:316:GLU:HG2	2.32	0.45
1:K:312:ARG:NH1	1:K:316:GLU:HG2	2.32	0.45
1:B:190:MET:HG2	1:B:209:VAL:HG21	1.97	0.45
1:D:371:HIS:CE1	1:E:201:VAL:HG11	2.53	0.45
1:F:152:VAL:HA	1:F:298:VAL:O	2.17	0.45
1:B:371:HIS:CE1	1:C:201:VAL:HG11	2.52	0.45
1:C:366:GLY:O	1:C:369:ILE:HG22	2.17	0.45
1:B:287:ILE:HG21	1:D:65:LEU:HG	1.99	0.44
1:D:39:ARG:HG2	1:D:64:ILE:O	2.16	0.44
1:G:287:ILE:CA	1:I:64:ILE:HG21	2.47	0.44
1:F:289:ILE:O	1:F:293:LEU:HG	2.17	0.44
1:D:208:ILE:HG21	1:D:248:ILE:HG21	1.98	0.44
1:H:142:LEU:HD22	1:H:165:ILE:HB	1.98	0.44
1:H:208:ILE:HG21	1:H:248:ILE:HG21	1.98	0.44
1:B:70:PRO:HG3	1:B:85:ILE:HD12	1.99	0.44
1:D:312:ARG:NH1	1:D:316:GLU:HG2	2.32	0.44
1:J:289:ILE:O	1:J:293:LEU:HG	2.17	0.44
1:F:366:GLY:O	1:F:369:ILE:HG22	2.17	0.44
1:F:371:HIS:CE1	1:G:201:VAL:HG11	2.53	0.44
1:J:31:PHE:CE2	1:J:93:GLU:HG3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:287:ILE:HG21	1:J:65:LEU:HG	1.99	0.44
1:E:287:ILE:CA	1:G:64:ILE:HG21	2.47	0.44
1:E:286:ASP:OD2	1:G:47:MET:SD	2.76	0.44
1:I:286:ASP:OD2	1:K:47:MET:SD	2.76	0.44
1:K:169:TYR:HD2	1:K:375:PHE:HA	1.80	0.44
1:F:139:VAL:HA	1:F:165:ILE:HD13	1.98	0.44
1:I:116:ARG:CD	1:I:370:VAL:HG11	2.43	0.44
1:E:189:LEU:HB2	1:E:257:CYS:SG	2.57	0.44
1:J:312:ARG:HH12	1:J:316:GLU:HG3	1.82	0.44
1:K:312:ARG:HH12	1:K:316:GLU:HG3	1.82	0.44
1:G:31:PHE:CE2	1:G:93:GLU:HG3	2.52	0.44
1:K:31:PHE:HZ	1:K:89:THR:HG1	1.65	0.44
1:K:21:PHE:HB2	1:K:24:ASP:OD1	2.17	0.44
1:G:21:PHE:HB2	1:G:24:ASP:OD1	2.17	0.44
1:A:366:GLY:O	1:A:369:ILE:HG22	2.17	0.44
1:B:287:ILE:CA	1:D:64:ILE:HG21	2.47	0.44
1:A:287:ILE:CA	1:C:64:ILE:HG21	2.47	0.44
1:G:286:ASP:OD2	1:I:47:MET:SD	2.76	0.44
1:C:286:ASP:OD2	1:E:47:MET:SD	2.76	0.44
1:F:286:ASP:OD2	1:H:47:MET:SD	2.76	0.44
1:C:142:LEU:HD22	1:C:165:ILE:HB	1.99	0.44
1:D:142:LEU:HD22	1:D:165:ILE:HB	1.98	0.44
1:G:242:LEU:CG	1:G:243:PRO:HD2	2.47	0.44
1:J:242:LEU:CG	1:J:243:PRO:HD2	2.47	0.44
1:G:250:ILE:CG1	1:G:253:GLU:HB2	2.46	0.44
1:C:189:LEU:HB2	1:C:257:CYS:SG	2.57	0.44
1:H:312:ARG:NH1	1:H:316:GLU:HG2	2.32	0.44
1:E:312:ARG:NH1	1:E:316:GLU:HG2	2.32	0.44
1:H:371:HIS:CE1	1:I:201:VAL:HG11	2.52	0.44
1:K:152:VAL:HA	1:K:298:VAL:O	2.16	0.44
1:F:290:ARG:O	1:F:294:TYR:HD2	2.01	0.44
1:D:287:ILE:CA	1:F:64:ILE:HG21	2.47	0.44
1:E:289:ILE:O	1:E:293:LEU:HG	2.17	0.44
1:G:289:ILE:O	1:G:293:LEU:HG	2.17	0.44
1:F:208:ILE:HG21	1:F:248:ILE:HG21	1.98	0.44
1:B:155:SER:HB3	1:B:304:THR:HG23	2.00	0.44
1:J:208:ILE:HG21	1:J:248:ILE:HG21	1.98	0.44
1:G:275:HIS:HB2	1:G:317:ILE:CD1	2.48	0.44
1:D:242:LEU:HG	1:D:243:PRO:HD2	2.00	0.44
1:I:196:ARG:HH22	1:I:231:ALA:HA	1.79	0.44
1:C:312:ARG:NH1	1:C:316:GLU:HG2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:PHE:CE2	1:A:93:GLU:HG3	2.52	0.44
1:C:287:ILE:CA	1:E:64:ILE:HG21	2.47	0.44
1:I:289:ILE:O	1:I:293:LEU:HG	2.17	0.44
1:B:286:ASP:OD2	1:D:47:MET:SD	2.76	0.44
1:H:286:ASP:OD2	1:J:47:MET:SD	2.76	0.44
1:B:208:ILE:HG21	1:B:248:ILE:HG21	1.98	0.44
1:K:139:VAL:HA	1:K:165:ILE:HD13	1.98	0.44
1:C:155:SER:HB3	1:C:304:THR:HG23	2.00	0.44
1:F:275:HIS:HB2	1:F:317:ILE:CD1	2.48	0.44
1:G:371:HIS:CE1	1:H:201:VAL:HG11	2.52	0.44
1:B:366:GLY:O	1:B:369:ILE:HG22	2.17	0.44
1:H:287:ILE:HD12	1:J:64:ILE:HD12	1.42	0.44
1:H:290:ARG:O	1:H:294:TYR:HD2	2.01	0.44
1:A:286:ASP:OD2	1:C:47:MET:SD	2.76	0.44
1:J:71:ILE:HG12	1:J:76:ILE:HG12	2.00	0.44
1:A:71:ILE:HG12	1:A:76:ILE:HG12	2.00	0.44
1:C:289:ILE:O	1:C:293:LEU:HG	2.17	0.44
1:F:166:TYR:HB2	1:F:289:ILE:HD13	2.00	0.44
1:D:139:VAL:HA	1:D:165:ILE:HD13	1.98	0.44
1:D:169:TYR:HD2	1:D:375:PHE:HA	1.80	0.44
1:G:142:LEU:HD22	1:G:165:ILE:HB	1.98	0.44
1:A:155:SER:HB3	1:A:304:THR:HG23	2.00	0.44
1:C:275:HIS:HB2	1:C:317:ILE:CD1	2.48	0.44
1:B:242:LEU:HG	1:B:243:PRO:HD2	2.00	0.44
1:C:242:LEU:CG	1:C:243:PRO:HD2	2.47	0.44
1:G:312:ARG:NH1	1:G:316:GLU:HG2	2.32	0.44
1:I:371:HIS:CE1	1:J:201:VAL:HG11	2.53	0.44
1:D:290:ARG:O	1:D:294:TYR:HD2	2.01	0.44
1:I:287:ILE:HB	1:K:64:ILE:HG22	1.97	0.44
1:D:286:ASP:OD2	1:F:47:MET:SD	2.76	0.44
1:C:71:ILE:HG12	1:C:76:ILE:HG12	2.00	0.44
1:C:139:VAL:HA	1:C:165:ILE:HD13	1.98	0.44
1:E:142:LEU:HD22	1:E:165:ILE:HB	1.99	0.44
1:F:142:LEU:HD22	1:F:165:ILE:HB	1.99	0.44
1:A:275:HIS:HB2	1:A:317:ILE:CD1	2.48	0.44
1:I:275:HIS:HB2	1:I:317:ILE:CD1	2.48	0.44
1:B:275:HIS:HB2	1:B:317:ILE:CD1	2.48	0.44
1:D:189:LEU:HB2	1:D:257:CYS:SG	2.57	0.44
1:J:371:HIS:CE1	1:K:201:VAL:HG11	2.53	0.44
1:E:371:HIS:CE1	1:F:201:VAL:HG11	2.52	0.44
1:I:21:PHE:HB2	1:I:24:ASP:OD1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:31:PHE:CE2	1:C:93:GLU:HG3	2.52	0.44
1:H:289:ILE:O	1:H:293:LEU:HG	2.17	0.44
1:D:155:SER:HB3	1:D:304:THR:HG23	2.00	0.44
1:E:155:SER:HB3	1:E:304:THR:HG23	2.00	0.44
1:J:275:HIS:HB2	1:J:317:ILE:CD1	2.48	0.44
1:K:275:HIS:HB2	1:K:317:ILE:CD1	2.48	0.44
1:F:242:LEU:HG	1:F:243:PRO:HD2	2.00	0.44
1:F:257:CYS:HB3	1:F:258:PRO:HD3	2.00	0.44
1:E:196:ARG:HH22	1:E:231:ALA:HA	1.79	0.44
1:G:287:ILE:HB	1:I:64:ILE:HG22	1.97	0.44
1:A:289:ILE:O	1:A:293:LEU:HG	2.17	0.44
1:H:71:ILE:HG12	1:H:76:ILE:HG12	2.00	0.44
1:G:155:SER:HB3	1:G:304:THR:HG23	2.00	0.44
1:D:70:PRO:HG3	1:D:85:ILE:HD12	1.99	0.44
1:H:275:HIS:HB2	1:H:317:ILE:CD1	2.48	0.44
1:K:242:LEU:HG	1:K:243:PRO:HD2	2.00	0.44
1:G:257:CYS:HB3	1:G:258:PRO:HD3	2.00	0.44
1:C:257:CYS:HB3	1:C:258:PRO:HD3	2.00	0.44
1:J:31:PHE:HZ	1:J:89:THR:HG1	1.66	0.44
1:E:31:PHE:CE2	1:E:93:GLU:HG3	2.52	0.44
1:A:290:ARG:O	1:A:294:TYR:HD2	2.01	0.43
1:D:166:TYR:HB2	1:D:289:ILE:HD13	2.00	0.43
1:K:155:SER:HB3	1:K:304:THR:HG23	2.00	0.43
1:I:155:SER:HB3	1:I:304:THR:HG23	2.00	0.43
1:I:242:LEU:HG	1:I:243:PRO:HD2	2.00	0.43
1:E:242:LEU:CG	1:E:243:PRO:HD2	2.47	0.43
1:J:290:ARG:O	1:J:294:TYR:HD2	2.01	0.43
1:K:290:ARG:O	1:K:294:TYR:HD2	2.01	0.43
1:I:173:HIS:CE1	1:K:45:VAL:CG1	2.85	0.43
1:A:287:ILE:HG21	1:C:65:LEU:HG	1.99	0.43
1:B:257:CYS:HB3	1:B:258:PRO:HD3	2.00	0.43
1:A:312:ARG:HH12	1:A:316:GLU:HG3	1.82	0.43
1:C:312:ARG:HG3	1:C:312:ARG:NH1	2.33	0.43
1:C:371:HIS:CE1	1:D:201:VAL:HG11	2.53	0.43
1:H:21:PHE:HB2	1:H:24:ASP:OD1	2.17	0.43
1:C:21:PHE:HB2	1:C:24:ASP:OD1	2.17	0.43
1:A:371:HIS:CE1	1:B:201:VAL:HG11	2.52	0.43
1:E:287:ILE:HB	1:G:64:ILE:HG22	1.97	0.43
1:E:71:ILE:HG12	1:E:76:ILE:HG12	2.00	0.43
1:F:155:SER:HB3	1:F:304:THR:HG23	2.00	0.43
1:H:242:LEU:HG	1:H:243:PRO:HD2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:257:CYS:HB3	1:I:258:PRO:HD3	2.00	0.43
1:E:312:ARG:NH1	1:E:312:ARG:HG3	2.33	0.43
1:D:264:PRO:HD3	1:D:273:GLY:HA2	2.01	0.43
1:B:287:ILE:HD12	1:D:64:ILE:HD12	1.42	0.43
1:A:169:TYR:HD2	1:A:375:PHE:HA	1.80	0.43
1:G:242:LEU:HG	1:G:243:PRO:HD2	2.00	0.43
1:H:257:CYS:HB3	1:H:258:PRO:HD3	2.00	0.43
1:A:257:CYS:HB3	1:A:258:PRO:HD3	2.00	0.43
1:J:166:TYR:HB2	1:J:289:ILE:HD13	2.00	0.43
1:F:264:PRO:HD3	1:F:273:GLY:HA2	2.01	0.43
1:B:264:PRO:HD3	1:B:273:GLY:HA2	2.01	0.43
1:B:290:ARG:O	1:B:294:TYR:HD2	2.01	0.43
1:C:287:ILE:HG21	1:E:65:LEU:HG	1.99	0.43
1:C:290:ARG:O	1:C:294:TYR:HD2	2.01	0.43
1:B:166:TYR:HB2	1:B:289:ILE:HD13	2.00	0.43
1:F:71:ILE:HG12	1:F:76:ILE:HG12	2.00	0.43
1:K:166:TYR:HB2	1:K:289:ILE:HD13	2.00	0.43
1:J:264:PRO:HD3	1:J:273:GLY:HA2	2.01	0.43
1:D:21:PHE:HB2	1:D:24:ASP:OD1	2.18	0.43
1:J:21:PHE:HB2	1:J:24:ASP:OD1	2.17	0.43
1:E:166:TYR:HB2	1:E:289:ILE:HD13	2.00	0.43
1:D:71:ILE:HG12	1:D:76:ILE:HG12	2.00	0.43
1:C:166:TYR:HB2	1:C:289:ILE:HD13	2.00	0.43
1:H:166:TYR:HB2	1:H:289:ILE:HD13	2.00	0.43
1:E:21:PHE:HB2	1:E:24:ASP:OD1	2.17	0.43
1:I:290:ARG:O	1:I:294:TYR:HD2	2.01	0.43
1:H:155:SER:HB3	1:H:304:THR:HG23	2.00	0.43
1:J:192:ILE:CG1	1:J:253:GLU:HG3	2.49	0.43
1:A:312:ARG:HG3	1:A:312:ARG:NH1	2.33	0.43
1:H:264:PRO:HD3	1:H:273:GLY:HA2	2.01	0.43
1:I:287:ILE:HG21	1:K:65:LEU:HG	1.99	0.43
1:G:290:ARG:O	1:G:294:TYR:HD2	2.01	0.43
1:E:275:HIS:HB2	1:E:317:ILE:CD1	2.48	0.43
1:D:275:HIS:HB2	1:D:317:ILE:CD1	2.48	0.43
1:J:242:LEU:HG	1:J:243:PRO:HD2	2.00	0.43
1:E:242:LEU:HG	1:E:243:PRO:HD2	2.00	0.43
1:D:192:ILE:CG1	1:D:253:GLU:HG3	2.49	0.43
1:H:192:ILE:CG1	1:H:253:GLU:HG3	2.49	0.43
1:J:257:CYS:HB3	1:J:258:PRO:HD3	2.00	0.43
1:H:113:LYS:O	1:H:117:GLU:HG3	2.19	0.43
1:E:113:LYS:O	1:E:117:GLU:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:113:LYS:O	1:G:117:GLU:HG3	2.19	0.43
1:F:21:PHE:HB2	1:F:24:ASP:OD1	2.17	0.43
1:A:21:PHE:HB2	1:A:24:ASP:OD1	2.17	0.43
1:B:21:PHE:HB2	1:B:24:ASP:OD1	2.18	0.43
1:G:287:ILE:HG21	1:I:65:LEU:HG	1.99	0.43
1:I:166:TYR:HB2	1:I:289:ILE:HD13	2.00	0.43
1:J:169:TYR:HD2	1:J:375:PHE:HA	1.80	0.43
1:B:192:ILE:CG1	1:B:253:GLU:HG3	2.49	0.43
1:K:257:CYS:HB3	1:K:258:PRO:HD3	2.00	0.43
1:C:113:LYS:O	1:C:117:GLU:HG3	2.19	0.43
1:J:113:LYS:O	1:J:117:GLU:HG3	2.19	0.43
1:I:113:LYS:O	1:I:117:GLU:HG3	2.19	0.43
1:D:268:GLY:HA3	1:E:40:HIS:CB	2.49	0.43
1:H:268:GLY:HA3	1:I:40:HIS:CB	2.49	0.43
1:G:71:ILE:HG12	1:G:76:ILE:HG12	2.00	0.43
1:I:169:TYR:HD2	1:I:375:PHE:HA	1.80	0.43
1:J:155:SER:HB3	1:J:304:THR:HG23	2.00	0.43
1:F:230:ALA:HB1	1:F:252:ASN:HB3	2.01	0.43
1:G:312:ARG:HG3	1:G:312:ARG:NH1	2.33	0.43
1:B:113:LYS:O	1:B:117:GLU:HG3	2.19	0.43
1:B:268:GLY:HA3	1:C:40:HIS:CB	2.49	0.43
1:G:268:GLY:HA3	1:H:40:HIS:CB	2.49	0.43
1:K:264:PRO:HD3	1:K:273:GLY:HA2	2.01	0.43
1:E:290:ARG:O	1:E:294:TYR:HD2	2.01	0.42
1:G:166:TYR:HB2	1:G:289:ILE:HD13	2.00	0.42
1:F:192:ILE:CG1	1:F:253:GLU:HG3	2.49	0.42
1:H:230:ALA:HB1	1:H:252:ASN:HB3	2.01	0.42
1:J:312:ARG:HG3	1:J:312:ARG:NH1	2.33	0.42
1:K:113:LYS:O	1:K:117:GLU:HG3	2.19	0.42
1:F:268:GLY:HA3	1:G:40:HIS:CB	2.49	0.42
1:I:268:GLY:HA3	1:J:40:HIS:CB	2.49	0.42
1:A:166:TYR:HB2	1:A:289:ILE:HD13	2.00	0.42
1:B:71:ILE:HG12	1:B:76:ILE:HG12	2.00	0.42
1:K:71:ILE:HG12	1:K:76:ILE:HG12	2.00	0.42
1:D:139:VAL:HG22	1:D:170:ALA:HB2	2.02	0.42
1:E:257:CYS:HB3	1:E:258:PRO:HD3	2.00	0.42
1:G:230:ALA:HB1	1:G:252:ASN:HB3	2.01	0.42
1:J:230:ALA:HB1	1:J:252:ASN:HB3	2.02	0.42
1:A:230:ALA:HB1	1:A:252:ASN:HB3	2.01	0.42
1:E:230:ALA:HB1	1:E:252:ASN:HB3	2.02	0.42
1:C:230:ALA:HB1	1:C:252:ASN:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:71:ILE:HG12	1:I:76:ILE:HG12	2.00	0.42
1:H:139:VAL:HG22	1:H:170:ALA:HB2	2.02	0.42
1:G:139:VAL:HG22	1:G:170:ALA:HB2	2.02	0.42
1:B:353:GLN:HA	1:B:356:TRP:HD1	1.84	0.42
1:B:139:VAL:HG22	1:B:170:ALA:HB2	2.02	0.42
1:G:111:ASN:HB3	1:G:116:ARG:HH21	1.85	0.42
1:A:192:ILE:CG1	1:A:253:GLU:HG3	2.49	0.42
1:C:192:ILE:CG1	1:C:253:GLU:HG3	2.49	0.42
1:I:230:ALA:HB1	1:I:252:ASN:HB3	2.01	0.42
1:D:230:ALA:HB1	1:D:252:ASN:HB3	2.02	0.42
1:C:18:LYS:HG3	1:C:30:VAL:HG22	2.02	0.42
1:F:287:ILE:HG21	1:H:65:LEU:HG	1.99	0.42
1:I:139:VAL:HG22	1:I:170:ALA:HB2	2.02	0.42
1:K:139:VAL:HG22	1:K:170:ALA:HB2	2.02	0.42
1:B:111:ASN:HB3	1:B:116:ARG:HH21	1.85	0.42
1:D:257:CYS:HB3	1:D:258:PRO:HD3	2.00	0.42
1:A:242:LEU:HG	1:A:243:PRO:HD2	2.00	0.42
1:C:242:LEU:HG	1:C:243:PRO:HD2	2.00	0.42
1:A:113:LYS:O	1:A:117:GLU:HG3	2.19	0.42
1:A:268:GLY:HA3	1:B:40:HIS:CB	2.49	0.42
1:I:264:PRO:HD3	1:I:273:GLY:HA2	2.01	0.42
1:A:264:PRO:HD3	1:A:273:GLY:HA2	2.01	0.42
1:E:139:VAL:HG22	1:E:170:ALA:HB2	2.02	0.42
1:A:139:VAL:HG22	1:A:170:ALA:HB2	2.01	0.42
1:F:139:VAL:HG22	1:F:170:ALA:HB2	2.02	0.42
1:I:111:ASN:HB3	1:I:116:ARG:HH21	1.85	0.42
1:C:264:PRO:HD3	1:C:273:GLY:HA2	2.01	0.42
1:E:264:PRO:HD3	1:E:273:GLY:HA2	2.01	0.42
1:C:139:VAL:HG22	1:C:170:ALA:HB2	2.02	0.42
1:B:169:TYR:HD2	1:B:375:PHE:HA	1.80	0.42
1:E:192:ILE:CG1	1:E:253:GLU:HG3	2.49	0.42
1:K:230:ALA:HB1	1:K:252:ASN:HB3	2.01	0.42
1:B:230:ALA:HB1	1:B:252:ASN:HB3	2.02	0.42
1:H:312:ARG:NH1	1:H:312:ARG:HG3	2.33	0.42
1:K:312:ARG:HG3	1:K:312:ARG:NH1	2.33	0.42
1:F:113:LYS:O	1:F:117:GLU:HG3	2.19	0.42
1:C:268:GLY:HA3	1:D:40:HIS:CB	2.49	0.42
1:G:264:PRO:HD3	1:G:273:GLY:HA2	2.01	0.42
1:H:188:TYR:CE1	1:H:266:PHE:HB3	2.55	0.42
1:F:188:TYR:CE1	1:F:266:PHE:HB3	2.55	0.42
1:G:18:LYS:HG3	1:G:30:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:49:GLN:O	1:I:49:GLN:HG3	2.20	0.42
1:K:192:ILE:CG1	1:K:253:GLU:HG3	2.49	0.42
1:I:192:ILE:CG1	1:I:253:GLU:HG3	2.49	0.42
1:D:353:GLN:HA	1:D:356:TRP:HD1	1.84	0.42
1:J:139:VAL:HG22	1:J:170:ALA:HB2	2.02	0.42
1:I:312:ARG:HG3	1:I:312:ARG:NH1	2.33	0.42
1:G:18:LYS:HD3	1:G:18:LYS:N	2.35	0.42
1:G:49:GLN:HG3	1:G:49:GLN:O	2.20	0.42
1:A:49:GLN:HG3	1:A:49:GLN:O	2.20	0.42
1:D:140:LEU:HD22	1:D:343:GLY:HA2	2.02	0.42
1:E:111:ASN:HB3	1:E:116:ARG:HH21	1.85	0.42
1:J:111:ASN:HB3	1:J:116:ARG:HH21	1.85	0.42
1:G:192:ILE:CG1	1:G:253:GLU:HG3	2.49	0.42
1:F:140:LEU:HD22	1:F:343:GLY:HA2	2.02	0.41
1:D:111:ASN:HB3	1:D:116:ARG:HH21	1.85	0.41
1:D:113:LYS:O	1:D:117:GLU:HG3	2.19	0.41
1:E:268:GLY:HA3	1:F:40:HIS:CB	2.49	0.41
1:J:268:GLY:HA3	1:K:40:HIS:CB	2.49	0.41
1:J:188:TYR:CE1	1:J:266:PHE:HB3	2.55	0.41
1:A:18:LYS:HG3	1:A:30:VAL:HG22	2.02	0.41
1:I:18:LYS:HD3	1:I:18:LYS:N	2.35	0.41
1:J:49:GLN:O	1:J:49:GLN:HG3	2.20	0.41
1:E:287:ILE:HG21	1:G:65:LEU:HG	1.99	0.41
1:E:290:ARG:CD	1:G:64:ILE:HD13	2.38	0.41
1:K:111:ASN:HB3	1:K:116:ARG:HH21	1.85	0.41
1:H:111:ASN:HB3	1:H:116:ARG:HH21	1.85	0.41
1:A:111:ASN:HB3	1:A:116:ARG:HH21	1.85	0.41
1:D:185:LEU:HB3	1:D:257:CYS:SG	2.61	0.41
1:K:185:LEU:HB3	1:K:257:CYS:SG	2.60	0.41
1:J:296:ASN:HA	1:J:330:ILE:HD13	2.02	0.41
1:K:188:TYR:CE1	1:K:266:PHE:HB3	2.55	0.41
1:I:188:TYR:CE1	1:I:266:PHE:HB3	2.55	0.41
1:G:188:TYR:CE1	1:G:266:PHE:HB3	2.55	0.41
1:E:18:LYS:N	1:E:18:LYS:HD3	2.35	0.41
1:H:74:GLY:H	1:H:108:ALA:HB2	1.85	0.41
1:D:166:TYR:CD1	1:D:289:ILE:HG21	2.56	0.41
1:K:140:LEU:HD22	1:K:343:GLY:HA2	2.02	0.41
1:J:140:LEU:HD22	1:J:343:GLY:HA2	2.02	0.41
1:B:185:LEU:HB3	1:B:257:CYS:SG	2.61	0.41
1:I:185:LEU:HB3	1:I:257:CYS:SG	2.60	0.41
1:I:221:LEU:H	1:I:221:LEU:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:LEU:H	1:B:221:LEU:HD22	1.86	0.41
1:D:188:TYR:CE1	1:D:266:PHE:HB3	2.55	0.41
1:K:18:LYS:N	1:K:18:LYS:HD3	2.35	0.41
1:E:74:GLY:H	1:E:108:ALA:HB2	1.85	0.41
1:G:74:GLY:H	1:G:108:ALA:HB2	1.85	0.41
1:H:166:TYR:CD1	1:H:289:ILE:HG21	2.56	0.41
1:H:140:LEU:HD22	1:H:343:GLY:HA2	2.02	0.41
1:B:140:LEU:HD22	1:B:343:GLY:HA2	2.03	0.41
1:G:370:VAL:O	1:G:374:CYS:HB2	2.21	0.41
1:E:370:VAL:O	1:E:374:CYS:HB2	2.21	0.41
1:A:370:VAL:O	1:A:374:CYS:HB2	2.21	0.41
1:G:185:LEU:HB3	1:G:257:CYS:SG	2.60	0.41
1:F:185:LEU:HB3	1:F:257:CYS:SG	2.60	0.41
1:E:185:LEU:HB3	1:E:257:CYS:SG	2.61	0.41
1:C:185:LEU:HB3	1:C:257:CYS:SG	2.60	0.41
1:H:18:LYS:HG3	1:H:30:VAL:HG22	2.02	0.41
1:C:49:GLN:O	1:C:49:GLN:HG3	2.20	0.41
1:D:49:GLN:O	1:D:49:GLN:HG3	2.20	0.41
1:E:49:GLN:O	1:E:49:GLN:HG3	2.20	0.41
1:H:49:GLN:O	1:H:49:GLN:HG3	2.20	0.41
1:J:18:LYS:HG3	1:J:30:VAL:HG22	2.02	0.41
1:B:166:TYR:CD1	1:B:289:ILE:HG21	2.56	0.41
1:F:166:TYR:CD1	1:F:289:ILE:HG21	2.56	0.41
1:D:370:VAL:O	1:D:374:CYS:HB2	2.21	0.41
1:J:370:VAL:O	1:J:374:CYS:HB2	2.21	0.41
1:B:370:VAL:O	1:B:374:CYS:HB2	2.21	0.41
1:F:117:GLU:HG2	1:F:367:PRO:HG2	2.03	0.41
1:J:166:TYR:CD1	1:J:289:ILE:HG21	2.56	0.41
1:F:353:GLN:HA	1:F:356:TRP:HD1	1.84	0.41
1:E:18:LYS:HG3	1:E:30:VAL:HG22	2.02	0.41
1:B:18:LYS:HG3	1:B:30:VAL:HG22	2.02	0.41
1:C:173:HIS:CE1	1:E:45:VAL:CG1	2.85	0.41
1:C:111:ASN:HB3	1:C:116:ARG:HH21	1.85	0.41
1:F:296:ASN:HA	1:F:330:ILE:HD13	2.02	0.41
1:E:188:TYR:CE1	1:E:266:PHE:HB3	2.55	0.41
1:C:18:LYS:N	1:C:18:LYS:HD3	2.35	0.41
1:K:18:LYS:HG3	1:K:30:VAL:HG22	2.02	0.41
1:I:287:ILE:CD1	1:K:61:LYS:O	2.69	0.41
1:I:370:VAL:O	1:I:374:CYS:HB2	2.21	0.41
1:I:296:ASN:HA	1:I:330:ILE:HD13	2.02	0.41
1:K:221:LEU:HD22	1:K:221:LEU:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:221:LEU:HD22	1:F:221:LEU:H	1.86	0.41
1:D:221:LEU:H	1:D:221:LEU:HD22	1.86	0.41
1:J:18:LYS:N	1:J:18:LYS:HD3	2.35	0.41
1:B:18:LYS:HD3	1:B:18:LYS:N	2.35	0.41
1:K:49:GLN:O	1:K:49:GLN:HG3	2.20	0.41
1:J:151:ILE:HD13	1:J:278:THR:HG23	2.02	0.41
1:A:287:ILE:CD1	1:C:61:LYS:O	2.69	0.41
1:I:74:GLY:H	1:I:108:ALA:HB2	1.85	0.41
1:F:370:VAL:O	1:F:374:CYS:HB2	2.21	0.41
1:C:370:VAL:O	1:C:374:CYS:HB2	2.21	0.41
1:F:193:LEU:HD23	1:F:253:GLU:HG2	2.03	0.41
1:D:193:LEU:HD23	1:D:253:GLU:HG2	2.03	0.41
1:F:312:ARG:NH1	1:F:312:ARG:HG3	2.33	0.41
1:K:166:TYR:CD1	1:K:289:ILE:HG21	2.56	0.41
1:D:117:GLU:HG2	1:D:367:PRO:HG2	2.03	0.41
1:D:296:ASN:HA	1:D:330:ILE:HD13	2.02	0.41
1:H:221:LEU:H	1:H:221:LEU:HD22	1.86	0.41
1:A:188:TYR:CE1	1:A:266:PHE:HB3	2.55	0.41
1:D:31:PHE:HZ	1:D:89:THR:HG1	1.67	0.41
1:D:98:PRO:O	1:D:129:VAL:HG12	2.21	0.41
1:D:287:ILE:CD1	1:F:61:LYS:O	2.69	0.41
1:B:287:ILE:CD1	1:D:61:LYS:O	2.69	0.41
1:C:287:ILE:CD1	1:E:61:LYS:O	2.69	0.41
1:C:74:GLY:H	1:C:108:ALA:HB2	1.85	0.41
1:B:12:ASN:HB3	1:B:71:ILE:CD1	2.51	0.41
1:E:140:LEU:HD22	1:E:343:GLY:HA2	2.02	0.41
1:G:140:LEU:HD22	1:G:343:GLY:HA2	2.02	0.41
1:I:140:LEU:HD22	1:I:343:GLY:HA2	2.02	0.41
1:J:185:LEU:HB3	1:J:257:CYS:SG	2.60	0.41
1:B:312:ARG:NH1	1:B:312:ARG:HG3	2.33	0.41
1:H:117:GLU:HG2	1:H:367:PRO:HG2	2.03	0.41
1:K:117:GLU:HG2	1:K:367:PRO:HG2	2.03	0.41
1:J:353:GLN:HA	1:J:356:TRP:HD1	1.84	0.41
1:G:296:ASN:HA	1:G:330:ILE:HD13	2.02	0.41
1:H:296:ASN:HA	1:H:330:ILE:HD13	2.02	0.41
1:B:188:TYR:CE1	1:B:266:PHE:HB3	2.55	0.41
1:K:151:ILE:HD13	1:K:278:THR:HG23	2.02	0.41
1:F:18:LYS:HG3	1:F:30:VAL:HG22	2.02	0.41
1:H:151:ILE:HD13	1:H:278:THR:HG23	2.02	0.41
1:D:18:LYS:HG3	1:D:30:VAL:HG22	2.02	0.41
1:D:18:LYS:N	1:D:18:LYS:HD3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:ILE:HD13	1:A:278:THR:HG23	2.02	0.41
1:D:151:ILE:HD13	1:D:278:THR:HG23	2.02	0.41
1:G:173:HIS:CE1	1:I:45:VAL:CG1	2.85	0.41
1:C:74:GLY:H	1:C:108:ALA:HB1	1.86	0.41
1:C:140:LEU:HD22	1:C:343:GLY:HA2	2.02	0.41
1:E:69:TYR:HA	1:E:70:PRO:HD2	1.95	0.41
1:F:111:ASN:HB3	1:F:116:ARG:HH21	1.85	0.41
1:H:193:LEU:HD23	1:H:253:GLU:HG2	2.03	0.41
1:H:185:LEU:HB3	1:H:257:CYS:SG	2.60	0.41
1:A:185:LEU:HB3	1:A:257:CYS:SG	2.60	0.41
1:K:353:GLN:HA	1:K:356:TRP:HD1	1.84	0.41
1:I:353:GLN:HA	1:I:356:TRP:HD1	1.84	0.41
1:K:296:ASN:HA	1:K:330:ILE:HD13	2.02	0.41
1:G:221:LEU:HD22	1:G:221:LEU:H	1.86	0.41
1:I:18:LYS:HG3	1:I:30:VAL:HG22	2.02	0.41
1:H:18:LYS:N	1:H:18:LYS:HD3	2.35	0.41
1:F:151:ILE:HD13	1:F:278:THR:HG23	2.02	0.41
1:B:49:GLN:O	1:B:49:GLN:HG3	2.20	0.41
1:E:287:ILE:CD1	1:G:61:LYS:O	2.69	0.40
1:I:140:LEU:HD22	1:I:343:GLY:CA	2.52	0.40
1:J:117:GLU:HG2	1:J:367:PRO:HG2	2.03	0.40
1:B:117:GLU:HG2	1:B:367:PRO:HG2	2.03	0.40
1:C:353:GLN:HA	1:C:356:TRP:HD1	1.84	0.40
1:C:188:TYR:CE1	1:C:266:PHE:HB3	2.55	0.40
1:E:286:ASP:HB2	1:G:46:GLY:CA	2.52	0.40
1:D:12:ASN:HB3	1:D:71:ILE:CD1	2.51	0.40
1:C:166:TYR:CD1	1:C:289:ILE:HG21	2.55	0.40
1:J:140:LEU:HD22	1:J:343:GLY:CA	2.52	0.40
1:A:140:LEU:HD22	1:A:343:GLY:HA2	2.03	0.40
1:E:296:ASN:HA	1:E:330:ILE:HD13	2.02	0.40
1:C:296:ASN:HA	1:C:330:ILE:HD13	2.02	0.40
1:D:11:ASP:OD2	1:D:339:VAL:HG12	2.22	0.40
1:J:11:ASP:OD2	1:J:339:VAL:HG12	2.22	0.40
1:A:18:LYS:HD3	1:A:18:LYS:N	2.36	0.40
1:B:151:ILE:HD13	1:B:278:THR:HG23	2.02	0.40
1:I:98:PRO:O	1:I:129:VAL:HG12	2.21	0.40
1:I:151:ILE:HD13	1:I:278:THR:HG23	2.02	0.40
1:F:49:GLN:O	1:F:49:GLN:HG3	2.20	0.40
1:G:286:ASP:HB2	1:I:46:GLY:CA	2.52	0.40
1:K:12:ASN:HB3	1:K:71:ILE:CD1	2.51	0.40
1:K:140:LEU:HD22	1:K:343:GLY:CA	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:140:LEU:HD22	1:G:343:GLY:CA	2.52	0.40
1:K:370:VAL:O	1:K:374:CYS:HB2	2.21	0.40
1:J:221:LEU:HD22	1:J:221:LEU:H	1.86	0.40
1:A:221:LEU:HD22	1:A:221:LEU:H	1.85	0.40
1:F:18:LYS:HD3	1:F:18:LYS:N	2.36	0.40
1:F:98:PRO:O	1:F:129:VAL:HG12	2.21	0.40
1:C:287:ILE:HD11	1:E:64:ILE:H	1.63	0.40
1:G:287:ILE:HD12	1:I:64:ILE:HD12	1.42	0.40
1:E:166:TYR:CD1	1:E:289:ILE:HG21	2.56	0.40
1:A:166:TYR:CD1	1:A:289:ILE:HG21	2.56	0.40
1:G:12:ASN:HB3	1:G:71:ILE:CD1	2.51	0.40
1:H:370:VAL:O	1:H:374:CYS:HB2	2.21	0.40
1:D:312:ARG:HG3	1:D:312:ARG:NH1	2.33	0.40
1:G:117:GLU:HG2	1:G:367:PRO:CG	2.52	0.40
1:H:353:GLN:HA	1:H:356:TRP:HD1	1.84	0.40
1:B:98:PRO:O	1:B:129:VAL:HG12	2.21	0.40
1:F:287:ILE:CD1	1:H:61:LYS:O	2.69	0.40
1:F:287:ILE:HB	1:H:64:ILE:HG21	2.03	0.40
1:H:287:ILE:CD1	1:J:61:LYS:O	2.69	0.40
1:I:166:TYR:CD1	1:I:289:ILE:HG21	2.56	0.40
1:J:12:ASN:HB3	1:J:71:ILE:CD1	2.51	0.40
1:A:12:ASN:HB3	1:A:71:ILE:CD1	2.51	0.40
1:J:113:LYS:HD3	1:J:113:LYS:H	1.87	0.40
1:G:353:GLN:HA	1:G:356:TRP:HD1	1.84	0.40
1:A:11:ASP:OD2	1:A:339:VAL:HG12	2.22	0.40
1:C:221:LEU:HD22	1:C:221:LEU:H	1.86	0.40
1:J:98:PRO:O	1:J:129:VAL:HG12	2.21	0.40
1:K:98:PRO:O	1:K:129:VAL:HG12	2.21	0.40
1:C:151:ILE:HD13	1:C:278:THR:HG23	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	B	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	C	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	D	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	E	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	F	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	G	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	H	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	I	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	J	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
1	K	369/377 (98%)	349 (95%)	14 (4%)	6 (2%)	12	56
All	All	4059/4147 (98%)	3839 (95%)	154 (4%)	66 (2%)	17	56

All (66) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	73	HIS
1	B	73	HIS
1	C	73	HIS
1	D	73	HIS
1	E	73	HIS
1	F	73	HIS
1	G	73	HIS
1	H	73	HIS
1	I	73	HIS
1	J	73	HIS
1	K	73	HIS
1	A	322	PRO
1	B	322	PRO
1	C	322	PRO
1	D	322	PRO
1	E	322	PRO
1	F	322	PRO
1	G	322	PRO
1	H	322	PRO
1	I	322	PRO
1	J	322	PRO
1	K	322	PRO
1	A	369	ILE

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Mol	Chain	Res	Type
1	B	369	ILE
1	C	369	ILE
1	D	369	ILE
1	E	369	ILE
1	F	369	ILE
1	G	369	ILE
1	H	369	ILE
1	I	369	ILE
1	J	369	ILE
1	K	369	ILE
1	A	158	GLY
1	B	158	GLY
1	C	158	GLY
1	D	158	GLY
1	E	158	GLY
1	F	158	GLY
1	G	158	GLY
1	H	158	GLY
1	I	158	GLY
1	J	158	GLY
1	K	158	GLY
1	A	15	GLY
1	B	15	GLY
1	C	15	GLY
1	D	15	GLY
1	E	15	GLY
1	F	15	GLY
1	G	15	GLY
1	H	15	GLY
1	I	15	GLY
1	J	15	GLY
1	K	15	GLY
1	A	75	ILE
1	B	75	ILE
1	C	75	ILE
1	D	75	ILE
1	E	75	ILE
1	F	75	ILE
1	G	75	ILE
1	H	75	ILE
1	I	75	ILE
1	J	75	ILE

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Mol	Chain	Res	Type
1	K	75	ILE

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	B	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	C	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	D	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	E	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	F	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	G	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	H	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	I	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	J	313/320 (98%)	307 (98%)	6 (2%)	65	86
1	K	313/320 (98%)	307 (98%)	6 (2%)	65	86
All	All	3443/3520 (98%)	3377 (98%)	66 (2%)	67	86

All (66) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	113	LYS
1	A	248	ILE
1	A	257	CYS
1	A	334	GLU
1	A	351	THR
1	A	364	GLU
1	B	113	LYS
1	B	248	ILE
1	B	257	CYS
1	B	334	GLU

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Mol	Chain	Res	Type
1	B	351	THR
1	B	364	GLU
1	C	113	LYS
1	C	248	ILE
1	C	257	CYS
1	C	334	GLU
1	C	351	THR
1	C	364	GLU
1	D	113	LYS
1	D	248	ILE
1	D	257	CYS
1	D	334	GLU
1	D	351	THR
1	D	364	GLU
1	E	113	LYS
1	E	248	ILE
1	E	257	CYS
1	E	334	GLU
1	E	351	THR
1	E	364	GLU
1	F	113	LYS
1	F	248	ILE
1	F	257	CYS
1	F	334	GLU
1	F	351	THR
1	F	364	GLU
1	G	113	LYS
1	G	248	ILE
1	G	257	CYS
1	G	334	GLU
1	G	351	THR
1	G	364	GLU
1	H	113	LYS
1	H	248	ILE
1	H	257	CYS
1	H	334	GLU
1	H	351	THR
1	H	364	GLU
1	I	113	LYS
1	I	248	ILE
1	I	257	CYS
1	I	334	GLU

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Mol	Chain	Res	Type
1	I	351	THR
1	I	364	GLU
1	J	113	LYS
1	J	248	ILE
1	J	257	CYS
1	J	334	GLU
1	J	351	THR
1	J	364	GLU
1	K	113	LYS
1	K	248	ILE
1	K	257	CYS
1	K	334	GLU
1	K	351	THR
1	K	364	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (42) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	88	HIS
1	A	92	ASN
1	A	173	HIS
1	A	354	GLN
1	B	88	HIS
1	B	92	ASN
1	B	173	HIS
1	B	354	GLN
1	C	88	HIS
1	C	92	ASN
1	C	173	HIS
1	C	354	GLN
1	D	88	HIS
1	D	92	ASN
1	D	173	HIS
1	D	354	GLN
1	E	88	HIS
1	E	92	ASN
1	E	173	HIS
1	E	354	GLN
1	F	88	HIS
1	F	92	ASN
1	F	173	HIS
1	F	354	GLN

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Mol	Chain	Res	Type
1	G	88	HIS
1	G	92	ASN
1	G	173	HIS
1	G	354	GLN
1	H	88	HIS
1	H	92	ASN
1	H	173	HIS
1	H	354	GLN
1	I	88	HIS
1	I	92	ASN
1	I	173	HIS
1	I	354	GLN
1	J	88	HIS
1	J	92	ASN
1	J	354	GLN
1	K	88	HIS
1	K	92	ASN
1	K	354	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.